

# ALLOY FITTINGS



**Rahul Ferrometal**  
Leading the Evolutions



**MONEL** ●  
**INCONEL** ●  
**INCOLOY** ●  
**HASTELLOY** ●

Elbow  
Flange  
Reducer  
Tee  
Pipe Cap

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## Mission

At Rahul Ferrrometal, its mission is leading the evolutions of this world.

As a raw material producer, we believe that each time new materials are successfully developed, the world will undergo evolution. To date, common carbon steels and stainless steels are difficult to deal with tasks and requirements faced by many high-tech industries and in extreme production environments. With global industrial upgrading, nickel alloys are emerging to replace previous materials for enhanced efficiency and more lasting performance of completing tasks. We are professional manufacturer of nickel alloys and what we keep doing is to supply high quality nickel alloy products to the world. We have our responsibility and role to play in the popularity of the superior nickel alloys, and usher a new chapter into our world industry.

## Vision

Our vision is to see the world development unconstrained by the materials.

This is an age of rapid development. As technology advances at the lightning speed, it poses increasingly high requirements on materials. While now material becomes a bottleneck on technology breakthrough, putting sand in the wheels of development, a hinderance that cannot be ignored. As raw material manufacturers, we should develop and progress on materials continuously so that we can introduce more advanced materials to the market. We firmly believe that material breakthrough will set off a chain effect on world technology.

## Values

Our value is to provide excellent products, information and service.

Product is the core of everything. We hope that all of our customers will feel at absolute ease using our products, while the product quality is the best bridge that builds our mutual trust. Hence, we've developed a very strict quality control system. Each product is subject to rounds of inspections by our professional inspectors. We believe that, only when we have 100% confidence in our products can our customers experience ease and satisfaction using them.

As nickel alloys are not as popular in applications as other steels, people's knowledge on these advanced alloys are also relatively limited. We are nickel alloy specialist; we devote ourselves to disseminating the knowledge of these materials. We will deliver new articles on nickel alloys on Media regularly. Hope with our efforts more people will know these excellent materials.

If you have any demand on nickel alloys, please feel free to send us enquiries. Our team will solve your demand with a very professional attitude. Our goal is to start every cooperation with excellent service.

# US

As a professional manufacturer of nickel alloys in China, Rahul Ferrrometal CO.,LIMITED provides a quite wide range of nickel alloy products to our worldwide customers. The forms of our supply come into five categories: Pipes, Fittings, Bars, Sheets and Wires. Monel, Inconel, Incoloy, Hastelloy are our four major grades. We also have other special alloys like Nimonic, Nitronic, pure-nickel and etc. to cater for your custom demands. With 30 years' accumulated experience in alloy industry, we have developed mature and diverse quality control solutions to free you from purchasing worries. At Rahul Ferrrometal, you buy trustworthy nickel alloys.

# AB

# ABOUT US



# WHY



# US

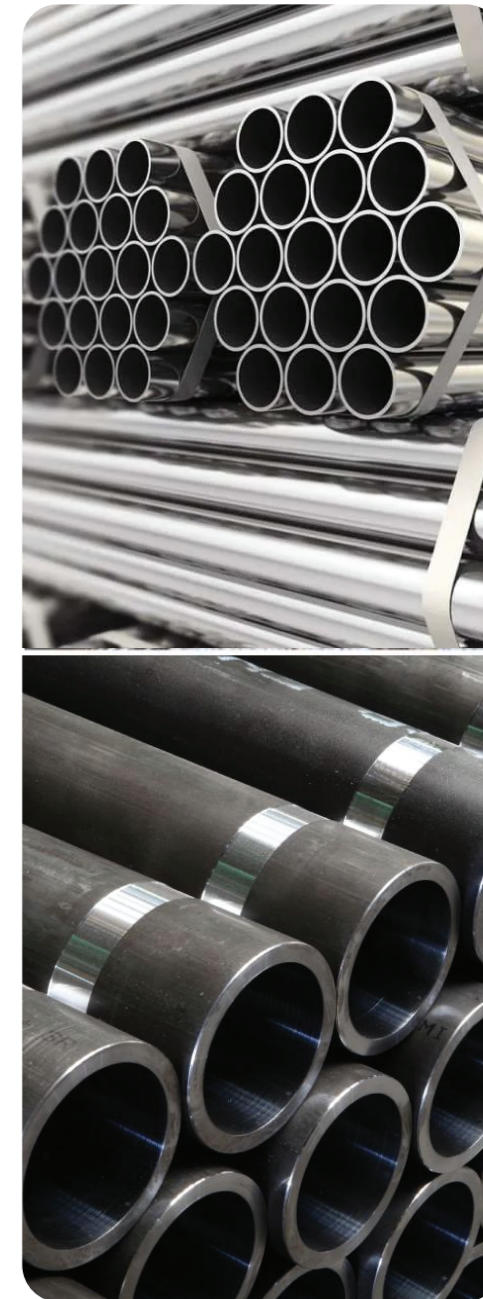
Quality Raw Material

Choosing raw material is the first step to quality control. This applies to all of our products. Our nickel alloy tube billets, ingots, and coils are all subjected to strict selection before putting into production.



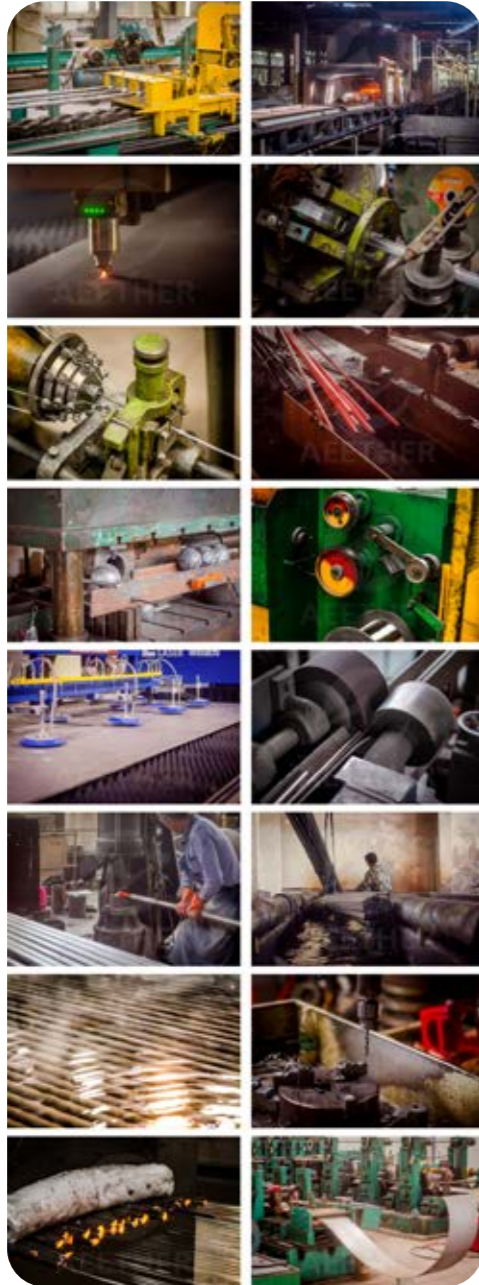
Huge Inventory

We have inventory for regular conventional products to solve regular and urgent demands. This enhances our supply chain efficiency. Meanwhile, it allows us to proceed with our production as plan and ensures production process.



## Complete Process ↓

We will not skip over any production process, even if it does not affect product look. We believe this is the basic requirement on product quality. If necessary, we will keep honing our products so that they can demonstrate workmanship.



## Artful Appearance ↻

Our products boast artful appearance. This cannot be done without our nearly fastidious attitudes on raw material selection, emphasis on finish treatment and skillful adapting of our equipment's functionality by our experienced engineers.



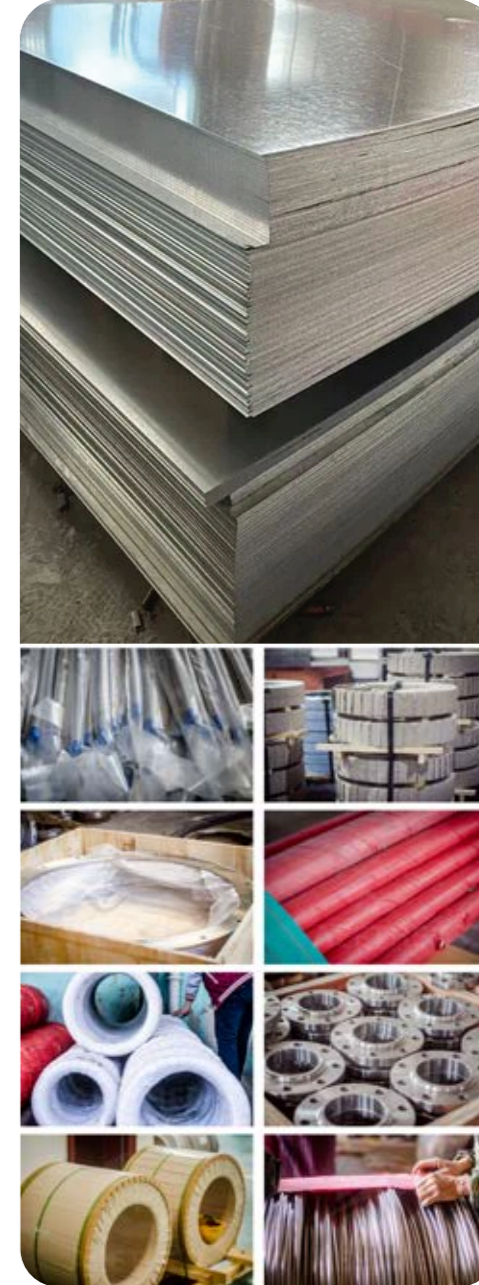
## Strict Quality Control ↑

Our products are subjected to strict quality inspection with original mill certificates issued by our officers or third party inspection with MTC issued by independent institutes. The final result is that we will never deliver unqualified products.



## Strong Packing 📦

Even the best-built products, if without suitable packing, may encounter problems during transportation. Hence, we are attentive to packing details. Packing is our shield to product transportation safety.



# OUR STORY

## Metal Experience

Rahul Ferrometal has its predecessor specialize in stainless steel products. At 1989, our first company Civmats was founded. Since then we have put into much efforts on stabilizing our product quality at an industrial higher level while experimenting on lowering the cost without any compromise on quality. With great efforts come our customers' recognition on our company and our products. Built on this solid base, Rahul Ferrometal keeps growing strong, aiming to bring values to our customers, staffs and stockholders.

## Nickel Alloy

2009 is the 20th anniversary of our foundation. At this juncture, we decide to evolve from ourselves and create this new brand Rahul Ferrometal. We've realized that nickel alloys will be the future of this industry. We need to embrace this ever changing market with a completely new look. Hence, we've built a professional team constituted by industrial specialists and experienced talents, studying the past, the present and the future of nickel alloys. We've also dug deep into production processes to enhance efficiency and lower the cost. In 2014, with five years'accumulation, Rahul Ferrometal has become a mature nickel alloy manufacturer. As an industrial specialist, we've provided satisfactory products and services to many customers.

## Going Global

Our products finally go global after serving domestic markets for around 30 years.

In 2016, Rahul Ferrometal founded its international business department. We've built international sales and technical teams, dedicated to making our quality materials accessible to more countries at a reasonably low price.

For now, our products have been manufactured and distributed to worldwide. We've built mutual trusts with customers from Asia, Europe, America, Africa, and Oceania. We regard your repeat orders as recognition on our product. Meanwhile, we will live up to your trust and expectations, marching further to the international market. We grow with you.

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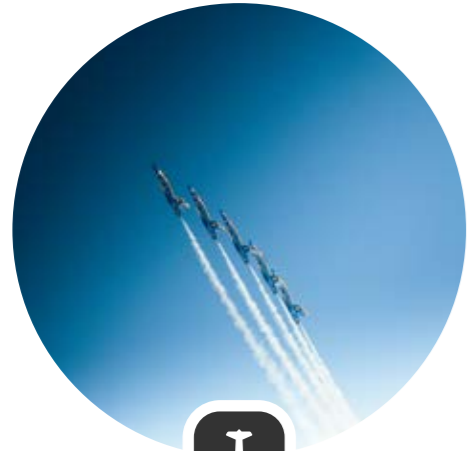
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# SOLUTIONS

## -- Nickel Alloy Applications

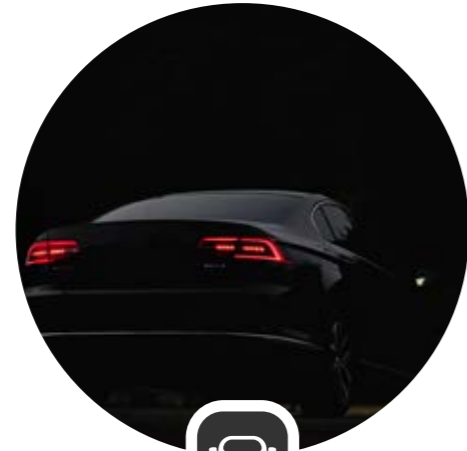




## Aerospace

- INCONEL
- INCOLOY
- HASTELLOY

Aerospace is the industry where nickel alloys are most widely used. In aerospace engines, it is not an easy task to ensure that various components can work normally at different temperatures and in different environments. Nickel alloy is currently the most suitable material with excellent corrosion resistance and excellent mechanical properties at high temperatures. Rahul Ferrrometal provides solid solution strengthened superalloys for engine containers and high-strength precipitation strengthened superalloys for engine blades.



## Automotive

- MONEL
- INCONEL
- INCOLOY
- HASTELLOY

Similar to aerospace applications. With the development of the automobile industry, more and more automobile production uses nickel alloys to improve the performance of automobiles. Nowadays, superalloys are widely used in auto parts such as turbochargers, exhaust valves, ignition prechamber, exhaust gas cleaner fastener, nozzles & etc. Rahul Ferrrometal produces high-performance nickel alloys to meet these needs.



## Chemical Processing

- MONEL
- INCONEL
- INCOLOY
- HASTELLOY

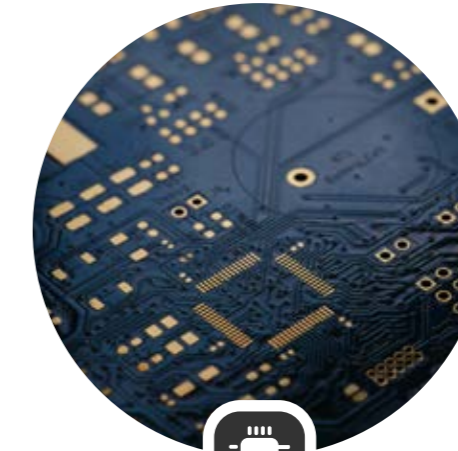
In the chemical industry, various chemical reactions need to be carried out in containers. Of course, different chemical reactions require different temperatures. The nickel alloy can not only resist the corrosion of various chemical substances, but also have good mechanical strength at both low and high temperatures. Therefore, it is the most commonly used material in the chemical industry. Rahul Ferrrometal provides a variety of high-performance nickel alloys to meet the needs of our customers in the chemical industry.



## Electrical Resistance

- INCONEL
- INCOLOY

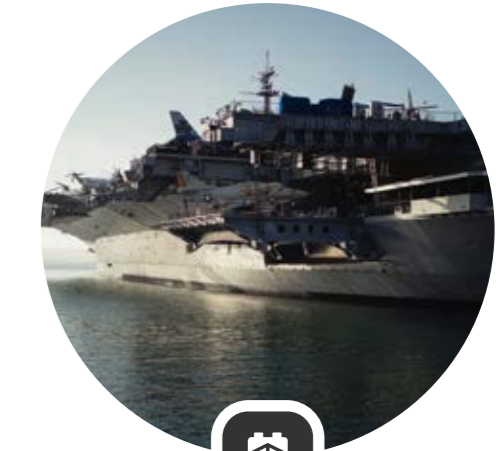
Resistance furnace is a heating furnace generate heat by pass current through the resistance wire or resistance band / strip. Among them, electric heating elements are required to have high heat resistance, high temperature strength, very low temperature coefficient of resistance and good chemical stability. Therefore, the common heating elements are nickel-chromium alloys or nickel-chromium-iron alloys (such as INCONEL and INCOLOY). Rahul Ferrrometal specializes in providing high-quality nickel-chromium alloy products for resistance furnace components.



## Electric & Telecom

- MONEL
- INCONEL

With the development of technology, the demand for electronic components is increasing. In order to meet this demand, Rahul Ferrrometal can provide precision nickel alloy wires as welding wires for electronic components. For welding materials for electronic components, good brazing properties and low Curie temperature are very important indicators. Therefore, among the materials we produce, MONEL alloys 401 and 404 are perfect choices for soldering materials.



## Marine

- MONEL
- INCONEL
- INCOLOY
- HASTELLOY

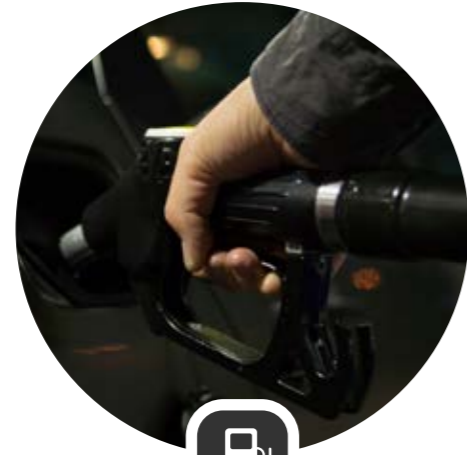
In the shipbuilding industry and other marine industries, the most important issue is how to deal with the corrosion of flowing seawater. Nickel alloy is a perfect solution, especially MONEL alloy can reduce the corrosion rate to almost negligible. At Rahul Ferrrometal, we provide solid solution strengthened alloy as the material for the ship's hull. At the same time, precipitation strengthened alloys are used as practical materials for fasteners in seawater.



## Oil & Gas

- MONEL
- INCONEL
- INCOLOY
- HASTELLOY

The oil is excavated from thousands of meters deep underground, where there is abnormally high temperature and pressure. In addition, the environment in some oil fields is very harsh, which can cause severe corrosion to metals. Rahul Ferrometal provides high-performance nickel alloy raw materials with excellent high-temperature corrosion resistance and high-temperature stress resistance. After being processed into casing and mandrel for drilling, it can be fully qualified for the oil exploitation environment.



## Petro Processing

- INCONEL
- INCOLOY
- HASTELLOY

The principle of crude oil refining is to distill crude oil according to the different boiling points of different components in the crude oil. Different substances (such as gasoline and diesel) can be distilled at different temperatures. The distillation temperature can reach up to 800 degrees Celsius, and the composition of crude oil is very complex. Therefore, the distillation vessel must be resistant to high temperatures and resistant to various forms of corrosion. The nickel alloy materials produced by Rahul Ferrometal are perfectly qualified for this job.



## Pollution & Waste

- INCONEL
- INCOLOY
- HASTELLOY

The waste in the industrial production process is generally treated by incineration. The temperature during incineration is extremely high and some waste materials are extremely corrosive. The nickel alloys we manufacture have superior high-temperature corrosion resistance, and provide guaranteed solutions for waste treatment in petroleum refining, natural gas processing, pharmaceutical, medical and other industries.



## Power Generation

- INCONEL
- INCOLOY
- HASTELLOY

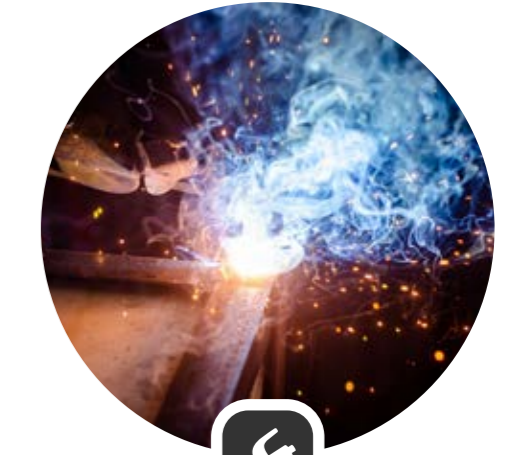
The power industry includes hydropower, coal power, gas power, and nuclear power. In addition to hydropower, other power generation methods require the support of high-temperature materials. Among them, nuclear power is one of the most widely used power generation methods of superalloys. In addition to the extreme high temperature inside the nuclear reactor, there is also a very harsh radiological environment. This makes nickel alloys an irreplaceable role in the composition of nuclear reactors.



## Thermal Processing

- INCONEL
- INCOLOY
- HASTELLOY

Different metal heat treatment requires different heat treatment temperature and heat treatment time. This requires that the furnace material can withstand different degrees of high temperature for a long time without high temperature creep. Rahul Ferrometal provides high-performance nickel alloy products and selects alloys with the best high-temperature creep strength to match this demand. Our materials have been verified by various practices and can perfectly cope with various heat treatment methods.



## Welding Products

- MONEL
- INCONEL
- INCOLOY
- HASTELLOY

Rahul Ferrometal produces nickel alloy welding materials corresponding to nickel alloy products. Our filler metals and welding electrodes are produced in strict accordance with AWS A5.14 and AWS A5.11 standards. And according to the standard requirements, the chemical composition of the material is fine-tuned to ensure the performance of the weld. In addition, we also provide filler metals and welding electrodes of world-renowned brands (such as Special Metals, Haynes, VDM, etc.) for you to choose from.





Nickel Alloy  
Elbow

## Standards

ASTM B366, ASTM B366M, ASTM B462, ASME B16.9, ASME B16.11, MSS SP-25, MSS SP-43

## Overview

As a leading nickel alloy pipe & tube supplier, Rahul Ferrometal produces and manufactures nickel alloy elbow to match the pipes & tubes. Nickel alloy elbow is a kind of pipe fittings manufactured by forming nickel alloy welded pipes. In the pipeline system, the elbow has the function of changing the direction of the pipeline. Its important role determines that it is one of our best-selling fitting products. Nickel alloy elbows can be divided into 45° elbows, 90° elbows and 180° elbows according to their shapes. As a device for connecting pipelines, the quality of nickel alloy elbows plays an important role. Therefore, if you are a customer of our nickel alloy pipes & tubes, our nickel alloy elbows will be your best choice.

Rahul Ferrometal supplies different nickel alloy Monel(400, 401, K-500, etc), Inconel(600, 601, 625, 718, etc), Incoloy(800, 825, A-286, etc) and Hastelloy(B-2, C-22, C-276, etc). The outer diameter of our nickel alloy elbow ranges from 21.3mm to 1219mm. Customized size is also available.

Our products have higher quality and lower price. Our sales are more professional and responsible. Please don't hesitate to contact us!

## Features

Corrosion resistance, high temperature resistance, fine arc, white surface.

## Specifications

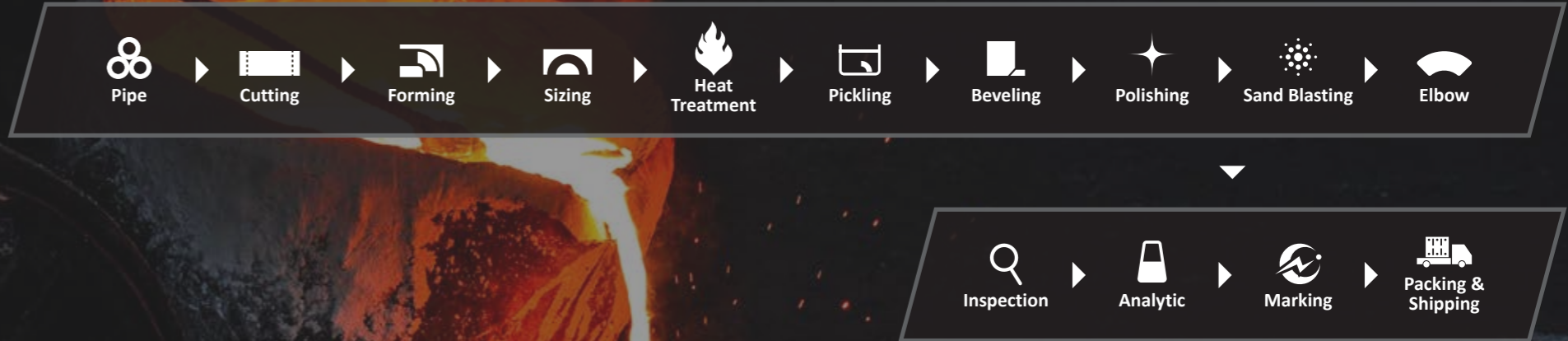
- NPS: ½ ~ 48"
- SCH: 5 ~ XXS
- Classification: 45° elbow, 90° elbow, 180° elbow, long radius elbow, short radius elbow, long radius 180° elbow, short radius 180° elbow, reducing elbow, base elbow, left/right hand elbow, double branch elbow, quick elbow, threaded elbow, sanitary elbow
- Delivery State: Pushing, pressing, forging and casting

## Applications

1. Thermowells in corrosive atmosphere
2. Production of vinyl chloride monomer: resistance to chlorine, hydrogen chloride, oxidation and carbonation corrosion
3. Uranium oxidation and conversion to hexafluoride: resistance to hydrogen fluoride corrosion
4. The production and use of corrosive alkali metals, especially the environment where sulfides are used
5. Use the chlorine method to make titanium dioxide
6. Production of organic or inorganic chlorides and fluorides: resistance to corrosion by chlorine and fluorine
7. Nuclear reactor
8. Retorts and parts in heat treatment furnaces, especially in carbonization and nitriding atmospheres
9. Catalytic regenerator in petrochemical production



## Manufacturing Process



## Drawing



## Dimensions

Long Radius Elbows			
Nominal Pipe Size(NPS)	Outside Diameter at Bevel, mm(in.)	Center-to-End, mm(in.)	
		90-deg Elbows, A	45-deg Elbows, B
		1/2	21.3(0.84)
3/4	26.7(1.05)	38(1.50)	19(0.75)
1	33.4(1.32)	38(1.50)	22(0.88)
5/4	42.2(1.66)	48(1.88)	25(1.00)
3/2	48.3(1.90)	57(2.25)	29(1.12)
2	60.3(2.38)	76(3.00)	35(1.38)
5/2	73.0(2.88)	95(3.75)	44(1.75)
3	88.9(3.50)	114(4.50)	51(2.00)
7/2	101.6(4.00)	133(5.25)	57(2.25)
4	114.3(4.50)	152(6.00)	64(2.50)
5	141.3(5.56)	190(7.50)	79(3.12)
6	168.3(6.62)	229(9.00)	95(3.75)
8	219.1(8.62)	305(12.00)	127(5.00)
10	273.0(10.75)	381(15.00)	159(6.25)
12	323.8(12.75)	457(18.00)	190(7.50)
14	355.6(14.00)	533(21.00)	222(8.75)
16	406.4(16.00)	610(24.00)	254(10.00)
18	457.0(18.00)	686(27.00)	286(11.25)
20	508.0(20.00)	762(30.00)	318(12.50)

22	559.0(22.00)	838(33.00)	343(13.50)
24	610.0(24.00)	914(36.00)	381(15.00)
26	660.0(26.00)	991(39.00)	406(16.00)
28	711.0(28.00)	1067(42.00)	438(17.25)
30	762.0(30.00)	1143(45.00)	470(18.50)
32	813.0(32.00)	1219(48.00)	502(19.75)
34	864.0(34.00)	1295(51.00)	533(21.00)
36	914.0(36.00)	1372(54.00)	565(22.25)
38	965.0(38.00)	1448(57.00)	600(23.62)
40	1016.0(40.00)	1524(60.00)	632(24.88)
42	1067.0(42.00)	1600(63.00)	660(26.00)
44	1118.0(44.00)	1676(66.00)	695(27.38)
46	1168.0(46.00)	1753(69.00)	727(28.62)
48	1219.0(48.00)	1829(72.00)	759(29.88)

Short Radius Elbows		
Nominal Pipe Size(NPS)	Outside Diameter at Bevel, mm(in.)	Center-to-End, A, mm(in.)
1	33.4(1.32)	25(1.00)
5/4	42.2(1.66)	32(1.25)
3/2	48.3(1.90)	38(1.50)
2	60.3(2.38)	51(2.00)
5/2	73.0(2.88)	64(2.50)
3	88.9(3.50)	76(3.00)
7/2	101.6(4.00)	89(3.50)
4	114.3(4.50)	102(4.00)



5	141.3(5.56)	127(5.00)
6	168.3(6.62)	152(6.00)
8	219.1(8.62)	203(8.00)
10	273.0(10.75)	254(10.00)
12	323.8(12.75)	305(12.00)
14	355.6(14.00)	356(14.00)
16	406.4(16.00)	406(16.00)
18	457.0(18.00)	457(18.00)
20	508.0(20.00)	508(20.00)
22	559.0(22.00)	559(22.00)
24	610.0(24.00)	610(24.00)

## Delivery State

Delivery State Choice	Surface Condition
Annealed	Pickled
	Polished
	Sand Blasted

**Note:**

1. If you require different deliver state than the above listed, kindly confirm with us.
2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.



## Package



Plastic Bag



Wooden Case



Wooden Pallet

At Rahul Ferrometal, all our nickel alloy elbows are packed in accordance with international standards to prevent any possible damage or loss. For smaller elbows, we will pack each elbow individually with plastic bag and finally put it in a wooden box for protection. For larger elbows, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection. Please note that wooden cases may incur additional costs, not only their own costs, but also increase freight costs, especially for air transportation. In order to enhance the customer experience, we also provide special packaging according to your special requirements.

## Logistics



By Sea



By Air

Sea transportation is the most popular for most orders, hence regarded as the default transportation mode. Accordingly, quotation is thus made as per FOB, CFR, CIF etc.. For urgent demand, we can also offer as per air transportation.

## FAQ

**Q**

Can you polish the nickel alloy elbows?

Yes, if you have the corresponding needs, we will perform internal and external polishing.

**A**

**Q**

What kinds of elbows are there?

45° elbow, 90° elbow, 180° elbow, long radius elbow, short radius elbow, long radius 180° elbow, short radius 180° elbow, reducing elbow, base elbow, left/right hand elbow, double branch elbow, quick elbow, threaded elbow, sanitary elbow.

**A**

**Q**

What are the main grades of nickel alloy elbow?

Monel 400, Monel K-500, Inconel 600, Inconel 625, Inconel 718, Incoloy 800, Incoloy 825, Hastelloy B-3, Hastelloy C-276, etc.

**A**

**Q**

Where's your main market?

South America, North America, Asia, Middle East, Europe, Africa etc.

**A**

**Q**

What is your standard packaging?

For smaller elbows, we will pack each elbow individually with plastic bag, and finally put it in wooden case for protection. For larger elbows, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection.

**A**





Nickel Alloy  
Flange

# Basic Information

## Standards

ASTM B462, ASME B16.5, MSS SP-25

## Overview

As a Chinese leading nickel alloy pipe fitting supplier, Rahul Ferrometal produces and manufactures various nickel alloy flanges. Flanges are fittings that connect pipes to each other and are used to connect pipe ends. The nickel alloy flange produced by Rahul Ferrometal can be well matched with various nickel alloy pipes to ensure the stability and firmness of the connection. So if you are interested in our nickel alloy pipes, our nickel alloy flanges be your best choice. Nickel alloy flanges have excellent corrosion resistance and high temperature resistance, which are very suitable for operations in extreme environments. According to different shapes and functions, our nickel alloy flanges are divided into threaded flange, slip-on welding flange, blind flange, socket welding flange, lapped flange and welding neck flange.

Rahul Ferrometal supplies different nickel alloy grades: Monel(400, 401, K-500, etc), Inconel(600, 601, 625, 718, etc), Incoloy(800, 825, A-286, etc) and Hastelloy(B-2, C-22, C-276, etc).

Our products have higher quality and lower price. Our sales are more professional and responsible. Please don't hesitate to contact us!

## Specifications

- NPS: ½ ~ 48"
- SCH: 5 ~ XXS
- Classification: TH (THreaded) flange, SO (Slip-On Welding) flange, BL (Blind) flange, SW (Socket Welding) flange, LJ (Lapped) flange, WN (Welding Neck) flange
- Pressure Level: Class 150 - Class 2500

## Features

Excellent corrosion resistance and high temperature resistance, complete size range, bright finish, optional types.

## Applications

1. Seamless water pipes and steam pipes for power plant water supply
2. Sea water exchanger and evaporator
3. Sulfuric acid and hydrochloric acid environment
4. Crude oil distillation
5. Pump shaft and propeller of equipment used in sea water
6. The nuclear industry is used to manufacture equipment for uranium extraction and isotope separation
7. Pumps and valves used in hydrochloric acid production equipment
8. Outer protective layer of corrosion-resistant cable



## Manufacturing Process

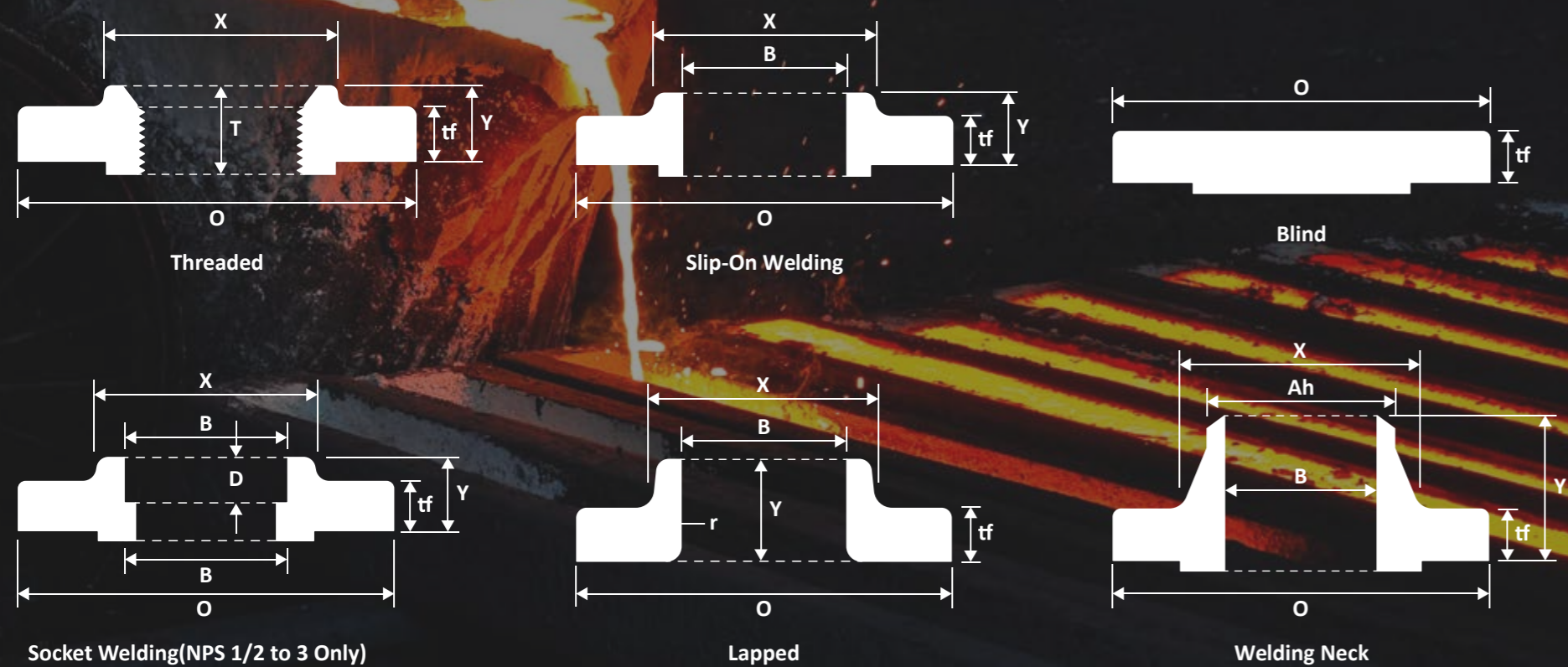
### Plate Flange



### Forged Flange



# Drawing



# Dimensions (Class 150)

Nominal Pipe Size, NPS	Outside Diameter of Flange, O	Minimum Thickness of Flange, tf	Minimum Thickness Lap Joint, tf	Diameter of Hub, X	Hub Diameter Beginning of Chamfer Welding Neck, Ah	Nominal Pipe Size, NPS			Minimum Thread Length Threaded, T	Outside Diameter of Flange, O			Corner Bore Radius of Lapped Flange and Pipe, r	Depth of Socket, D
						Threaded/ Slip-on/ Socket Welding, Y	Lapped, Y	Welding Neck, Y		Minimum Slip-on/ Socket Welding, B	Minimum Lapped, B	Welding Neck/ Socket Welding, B		
1/2	90	9.6	11.2	30	21.3	14	16	46	16	22.2	22.9	15.8	3	10
3/4	100	11.2	12.7	38	26.7	14	16	51	16	27.7	28.2	20.9	3	11
1	110	12.7	14.3	49	33.4	16	17	54	17	34.5	34.9	26.6	3	13
5/4	115	14.3	15.9	59	42.2	19	21	56	21	43.2	43.7	35.1	5	14
3/2	125	15.9	17.5	65	48.3	21	22	60	22	49.5	50.0	40.9	6	16
2	150	17.5	19.1	78	60.3	24	25	62	25	61.9	62.5	52.5	8	17
5/2	180	20.7	22.3	90	73.0	27	29	68	29	74.6	75.4	62.7	8	19
3	190	22.3	23.9	108	88.9	29	30	68	30	90.7	91.4	77.9	10	21
7/2	215	22.3	23.9	122	101.6	30	32	70	32	103.4	104.1	90.1	10	...
4	230	22.3	23.9	135	114.3	32	33	75	33	116.1	116.8	102.3	11	...
5	255	22.3	23.9	164	141.3	35	36	87	36	143.8	144.4	128.2	11	...
6	280	23.9	25.4	192	168.3	38	40	87	40	170.7	171.4	154.1	13	...
8	345	27.0	28.6	246	219.1	43	44	100	44	221.5	222.2	202.7	13	...
10	405	28.6	30.2	305	273.0	48	49	100	49	276.2	277.4	254.6	13	...
12	485	30.2	31.8	365	323.8	54	56	113	56	327.0	328.2	304.8	13	...
14	535	33.4	35.0	400	355.6	56	79	125	57	359.2	360.2	...	13	...
16	595	35.0	36.6	457	406.4	62	87	125	64	410.5	411.2	...	13	...
18	635	38.1	39.7	505	457.0	67	97	138	68	461.8	462.3	...	13	...
20	700	41.3	42.9	559	508.0	71	103	143	73	513.1	514.4	...	13	...
24	815	46.1	47.7	663	610.0	81	111	151	83	616.0	616.0	...	13	...

## FAQ

Q

What kinds of flanges are there?

TH (THreaded) flange, SO (Slip-On Welding) flange, BL (Blind) flange, SW (Socket Welding) flange, LJ (Lapped) flange, WN (Welding Neck) flange.

A

Q

What are the main grades of nickel alloy flanges?

Monel 400, Monel K-500, Inconel 600, Inconel 625, Inconel 718, Incoloy 800, Incoloy 825, Hastelloy B-3, Hastelloy C-276, etc. Special grades can also be customized according to your needs.

A

Q

Do you have nickel alloy pipes or tubes?

Yes, we have seamless pipes & tubes, welded pipes & tubes, capillary tubes, etc. For more information, please refer to our products.

A

Q

Where's your main market?

South America, North America, Asia, Middle East, Europe, Africa etc.

A

Q

What is your standard packaging?

For flanges with smaller dimensions, we will individually pack each flange in a plastic bag, and finally put it in a wooden case for protection. For larger flanges, we stack them in a wooden case and put cushioning materials between every two flanges to protect them.

A

## Package



Plastic Bag



Wooden Case

At Rahul Ferrometal, all our nickel alloy flanges are packaged in accordance with international standards to prevent any possible damage or loss. For flanges with smaller dimensions, we will individually pack each flange in a plastic bag, and finally put it in a wooden case for protection. For larger flanges, we stack them in a wooden case and put cushioning materials between every two flanges to protect them. Please note that wooden cases may incur additional costs, not only their own costs, but also increase freight costs, especially for air transportation. In order to enhance the customer experience, we also provide special packaging according to your special requirements.

## Logistics



By Sea



By Air

Sea transportation is the most popular for most orders, hence regarded as the default transportation mode. Accordingly, quotation is thus made as per FOB, CFR, CIF etc.. For urgent demand, we can also offer as per air transportation.



**Rahul Ferrometal**







Nickel Alloy  
Reducer

# Basic Information

## Features

Corrosion resistance, high temperature resistance, white surface.

## Overview

As a leading nickel alloy pipes & tubes supplier in China, Rahul Ferrometal produces and manufactures nickel alloy reducer to match the pipes & tubes. Nickel alloy reducer is also called nickel alloy size head. It is one of the important pipe fittings for the connection between two different pipe diameters. It is always used with nickel alloy seamless pipe & tube or nickel alloy welded pipe & tube. It has outstanding corrosion resistance and high temperature resistance. According to different shapes, there are two types: concentric reducer and eccentric reducer.

Rahul Ferrometal provides nickel alloy of various shapes and sizes. According to your needs, we can perform sand blasting, sand rolling or polishing treatment on the finish of nickel alloy reducers.

Rahul Ferrometal supplies different nickel alloy grades: Monel(400, 401, K-500, etc), Inconel(600, 601, 625, 718, etc), Incoloy(800, 825, A-286, etc) and Hastelloy(B-2, C-22, C-276, etc). The outer diameter of our nickel alloy reducer ranges from 21.3mm to 457mm. Customized size is also available.

Our products have higher quality and lower price. Our sales are more professional and responsible. Please don't hesitate to contact us!

## Specifications

- NPS: ½ ~ 48"
- SCH: 5 ~ XXS
- Classification: Concentric Reducer, Eccentric Reducer
- Connection Methods: clamped, welded & threaded

## Standards

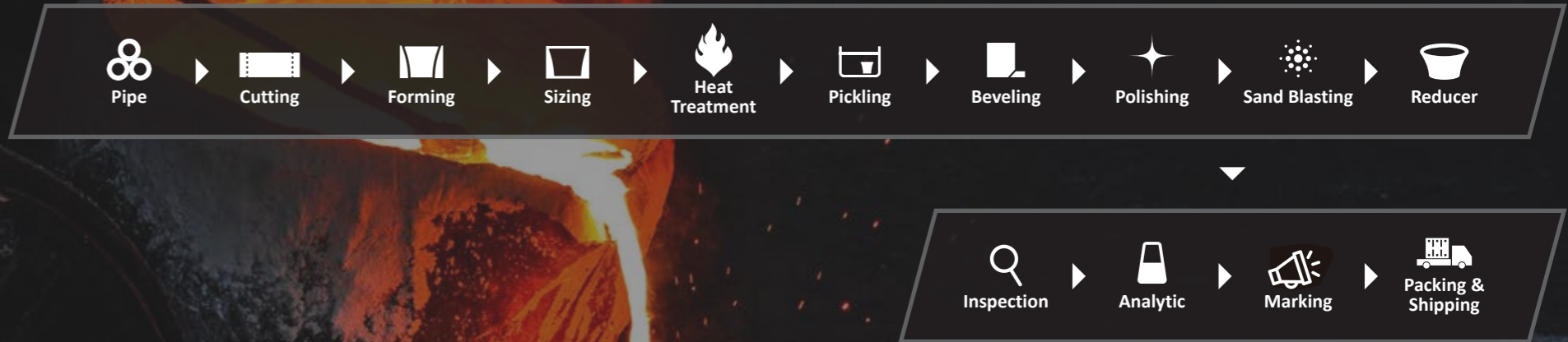
ASTM B366, ASTM B366M, ASTM B462, ASME B16.9, ASME B16.11, MSS SP-25, MSS SP-43

## Applications

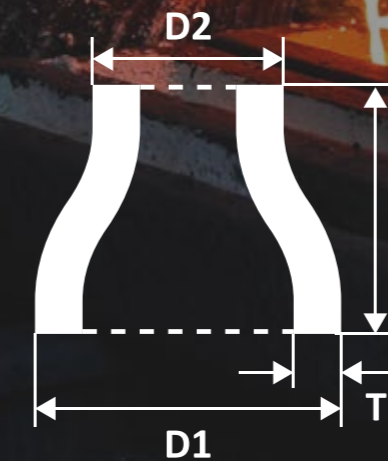
1. Ocean: Marine structures in the marine environment, seawater desalination, mariculture, seawater heat exchange, etc.
2. Environmental protection field: flue gas desulfurization device for thermal power generation, wastewater treatment, etc.
3. Energy field: nuclear power generation, comprehensive utilization of coal, sea tide power generation, etc.
4. Petrochemical industry: oil refining, chemical and chemical equipment, etc.



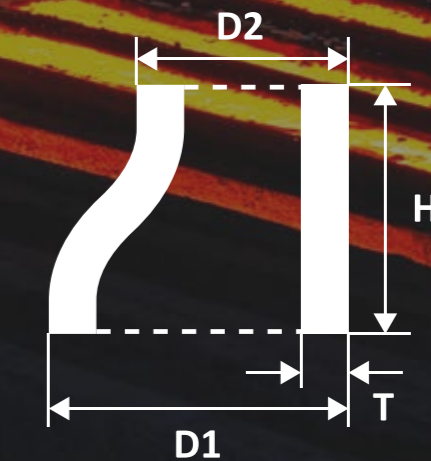
## Manufacturing Process



## Drawing



Concentric Reducers



Eccentric Reducers



## Dimensions

Nominal Pipe Size (NPS)	Outside Diameter at Bevel, mm (in.)		End-to-End, H, mm (in.)	Nominal Pipe Size (NPS)	Outside Diameter at Bevel, mm (in.)		End-to-End, H, mm (in.)
	Large End	Small End			Large End	Small End	
3/4x1/2	26.7(1.05)	21.3(0.84)	38(1.50)	20x18	508(20.00)	457.0(18.00)	508(20.00)
3/4x3/8	26.7(1.05)	17.3(0.68)	38(1.50)	20x16	508(20.00)	406.4(16.00)	508(20.00)
1x3/4	33.4(1.32)	26.7(1.05)	51(2.00)	20x14	508(20.00)	355.6(14.00)	508(20.00)
1x1/2	33.4(1.32)	21.3(0.84)	51(2.00)	20x12	508(20.00)	323.8(12.75)	508(20.00)
5/4x1	42.2(1.66)	33.4(1.32)	51(2.00)	22x20	559(22.00)	508.0(20.00)	508(20.00)
5/4x3/4	42.2(1.66)	26.7(1.05)	51(2.00)	22x18	559(22.00)	457.0(18.00)	508(20.00)
5/4x1/2	42.2(1.66)	21.3(0.84)	51(2.00)	22x16	559(22.00)	406.4(16.00)	508(20.00)
3/2x5/4	48.3(1.90)	42.2(1.66)	64(2.50)	22x14	559(22.00)	355.4(14.00)	508(20.00)
3/2x1	48.3(1.90)	33.4(1.32)	64(2.50)	24x22	610(24.00)	559.0(22.00)	508(20.00)
3/2x3/4	48.3(1.90)	26.7(1.05)	64(2.50)	24x20	610(24.00)	508.0(20.00)	508(20.00)
3/2x1/2	48.3(1.90)	21.3(0.84)	64(2.50)	24x18	610(24.00)	457.0(18.00)	508(20.00)
2x3/2	60.3(2.38)	48.3(1.90)	76(3.00)	24x16	610(24.00)	406.4(16.00)	508(20.00)
2x5/4	60.3(2.38)	42.2(1.66)	76(3.00)	26x24	660(26.00)	610.0(24.00)	610(24.00)
2x1	60.3(2.38)	33.4(1.32)	76(3.00)	26x22	660(26.00)	559.0(22.00)	610(24.00)
2x3/4	60.3(2.38)	26.7(1.05)	76(3.00)	26x20	660(26.00)	508.0(20.00)	610(24.00)
5/2x2	73.0(2.88)	60.3(2.38)	89(3.50)	26x18	660(26.00)	457.0(18.00)	610(24.00)
5/2x3/2	73.0(2.88)	48.3(1.90)	89(3.50)	28x26	711(28.00)	660.0(26.00)	610(24.00)
5/2x5/4	73.0(2.88)	42.2(1.66)	89(3.50)	28x24	711(28.00)	610.0(24.00)	610(24.00)
5/2x1	73.0(2.88)	33.4(1.32)	89(3.50)	28x20	711(28.00)	508.0(20.00)	610(24.00)
3x5/2	88.9(3.50)	73.0(2.88)	89(3.50)	28x18	711(28.00)	457.0(18.00)	610(24.00)
3x2	88.9(3.50)	60.3(2.38)	89(3.50)	30x28	762(30.00)	711.0(28.00)	610(24.00)
3x3/2	88.9(3.50)	48.3(1.90)	89(3.50)	30x26	762(30.00)	660.0(26.00)	610(24.00)
3x5/4	88.9(3.50)	42.2(1.66)	89(3.50)	30x24	762(30.00)	610.0(24.00)	610(24.00)
7/2x3	101.6(4.00)	88.9(3.50)	102(4.00)	30x20	762(30.00)	508.0(20.00)	610(24.00)

7/2x5/2	101.6(4.00)	73.0(2.88)	102(4.00)	32x30	813(32.00)	762.0(30.00)	610(24.00)
7/2x2	101.6(4.00)	60.3(2.38)	102(4.00)	32x28	813(32.00)	711.0(28.00)	610(24.00)
7/2x3/2	101.6(4.00)	48.3(1.90)	102(4.00)	32x26	813(32.00)	660.0(26.00)	610(24.00)
7/2x5/4	101.6(4.00)	42.2(1.66)	102(4.00)	32x24	813(32.00)	610.0(24.00)	610(24.00)
4x7/2	114.3(4.50)	101.6(4.00)	102(4.00)	34x32	864(34.00)	813.0(32.00)	610(24.00)
4x3	114.3(4.50)	88.9(3.50)	102(4.00)	34x30	864(34.00)	762.0(30.00)	610(24.00)
4x5/2	114.3(4.50)	73.0(2.88)	102(4.00)	34x26	864(34.00)	660.0(26.00)	610(24.00)
4x2	114.3(4.50)	60.3(2.38)	102(4.00)	34x24	864(34.00)	610.0(24.00)	610(24.00)
4x3/2	114.3(4.50)	48.3(1.90)	102(4.00)	36x34	914(36.00)	864(34.00)	610(24.00)
5x4	141.3(5.56)	114.3(4.50)	127(5.00)	36x32	914(36.00)	813(32.00)	610(24.00)
5x7/2	141.3(5.56)	101.6(4.00)	127(5.00)	36x30	914(36.00)	762(30.00)	610(24.00)
5x3	141.3(5.56)	88.9(3.50)	127(5.00)	36x26	914(36.00)	660(26.00)	610(24.00)
5x5/2	141.3(5.56)	73.0(2.88)	127(5.00)	36x24	914(36.00)	610(24.00)	610(24.00)
5x2	141.3(5.56)	60.3(2.38)	127(5.00)	38x36	965(38.00)	914(36.00)	610(24.00)
6x5	168.3(6.62)	141.3(5.56)	140(5.50)	38x34	965(38.00)	864(34.00)	610(24.00)
6x4	168.3(6.62)	114.3(4.50)	140(5.50)	38x32	965(38.00)	813(32.00)	610(24.00)
6x7/2	168.3(6.62)	101.6(4.00)	140(5.50)	38x30	965(38.00)	762(30.00)	610(24.00)
6x3	168.3(6.62)	88.9(3.50)	140(5.50)	38x28	965(38.00)	711(28.00)	610(24.00)
6x5/2	168.3(6.62)	73.0(2.88)	140(5.50)	38x26	965(38.00)	660(26.00)	610(24.00)
8x6	219.1(8.62)	168.3(6.62)	152(6.00)	40x38	1016(40.00)	965(38.00)	610(24.00)
8x5	219.1(8.62)	141.3(5.56)	152(6.00)	40x36	1016(40.00)	914(36.00)	610(24.00)
8x4	219.1(8.62)	114.3(4.50)	152(6.00)	40x34	1016(40.00)	864(34.00)	610(24.00)
8x7/2	219.1(8.62)	101.6(4.00)	152(6.00)	40x32	1016(40.00)	813(32.00)	610(24.00)
10x8	273.0(10.75)	219.1(8.62)	178(7.00)	40x30	1016(40.00)	762(30.00)	610(24.00)
10x6	273.0(10.75)	168.3(6.62)	178(7.00)	42x40	1067(42.00)	1016(40.00)	610(24.00)
10x5	273.0(10.75)	141.3(5.56)	178(7.00)	42x38	1067(42.00)	965(38.00)	610(24.00)
10x4	273.0(10.75)	114.3(4.50)	178(7.00)	42x36	1067(42.00)	914(36.00)	610(24.00)
12x10	323.8(12.75)	273.0(10.75)	203(8.00)	42x34	1067(42.00)	864(34.00)	610(24.00)



12x8	323.8(12.75)	219.1(8.62)	203(8.00)	42x32	1067(42.00)	813(32.00)	610(24.00)
12x6	323.8(12.75)	168.3(6.62)	203(8.00)	42x30	1067(42.00)	762(30.00)	610(24.00)
12x5	323.8(12.75)	141.3(5.56)	203(8.00)	44x42	1118(44.00)	1067(42.00)	610(24.00)
14x12	355.6(14.00)	323.8(12.75)	330(13.00)	44x40	1118(44.00)	1016(40.00)	610(24.00)
14x10	355.6(14.00)	273.0(10.75)	330(13.00)	44x38	1118(44.00)	965(38.00)	610(24.00)
14x8	355.6(14.00)	219.1(8.62)	330(13.00)	44x36	1118(44.00)	914(36.00)	610(24.00)
14x6	355.6(14.00)	168.3(6.62)	330(13.00)	46x44	1168(46.00)	1118(44.00)	711(28.00)
16x14	406.4(16.00)	355.6(14.00)	356(14.00)	46x42	1168(46.00)	1067(42.00)	711(28.00)
16x12	406.4(16.00)	323.8(12.75)	356(14.00)	46x40	1168(46.00)	1016(40.00)	711(28.00)
16x10	406.4(16.00)	273.0(10.75)	356(14.00)	46x38	1168(46.00)	965(38.00)	711(28.00)
16x8	406.4(16.00)	219.1(8.62)	356(14.00)	48x46	1219(48.00)	1168(46.00)	711(28.00)
18x16	457(18.00)	406.4(16.00)	381(15.00)	48x44	1219(48.00)	1118(44.00)	711(28.00)
18x14	457(18.00)	355.6(14.00)	381(15.00)	48x42	1219(48.00)	1067(42.00)	711(28.00)
18x12	457(18.00)	323.8(12.75)	381(15.00)	48x40	1219(48.00)	1016(40.00)	711(28.00)
18x10	457(18.00)	273.0(10.75)	381(15.00)				

## Delivery State

Delivery State Choice	Surface Condition
Annealed	Pickled
	Polished
	Sand Blasted

**Note:**

1. If you require different deliver state than the above listed, kindly confirm with us.
2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.



## Package



Plastic Bag



Wooden Case



Wooden Pallet

At Rahul Ferrometal, all our nickel alloy reducers are packed in accordance with international standards to prevent any possible damage or loss. For smaller reducers, we will pack each reducer individually with plastic bag and finally put it in a wooden box for protection. For larger reducers, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection. Please note that wooden cases may incur additional costs, not only their own costs, but also increase freight costs, especially for air transportation. In order to enhance the customer experience, we also provide special packaging according to your special requirements.

## Logistics



By Sea



By Air

Sea transportation is the most popular for most orders, hence regarded as the default transportation mode. Accordingly, quotation is thus made as per FOB, CFR, CIF etc.. For urgent demand, we can also offer as per air transportation.

## FAQ



Can you polish the nickel alloy reducer?

Yes, if you have the corresponding needs, we will perform internal and external polishing.



What kinds of reducers are there?

Concentric Reducer, Eccentric Reducer.



What are the main grades of nickel alloy reducer?

Monel 400, Monel K-500, Inconel 600, Inconel 625, Inconel 718, Incoloy 800, Incoloy 825, Hastelloy B-3, Hastelloy C-276, etc.



Where's your main market?

South America, North America, Asia, Middle East, Europe, Africa etc.



What is your standard packaging?

For smaller reducers, we will pack each reducer individually with plastic bag, and finally put it in wooden case for protection. For larger reducers, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection.





Nickel Alloy  
Tee

# Basic Information



## Overview

As a Chinese nickel alloy pipe & tube supplier, Rahul Ferrometal manufactures, produces nickel alloy tee to connect the pipes or tubes. Nickel alloy tee is a kind of nickel alloy pipe fitting with three ports, namely one inlet and two outlets; or two inlets and one outlet. There are T-shaped and Y-shaped, with straight nozzles and reducing nozzles. It is used for the collection of three same or different pipelines. The main function of the nickel alloy tee is to change the direction of the fluid, which is used at the branch pipe of the main pipeline. Nickel alloy tee plays an irreplaceable role in pipe connection, so it is one of our most popular fitting products. Nickel alloy tee has excellent corrosion resistance and high temperature resistance. We produce nickel alloy tees according to ISO 9001 standards for your choice.

Rahul Ferrometal supplies different nickel alloy grades: Monel(400, 401, K-500, etc), Inconel(600, 601, 625, 718, etc), Incoloy(800, 825, A-286, etc) and Hastelloy(B-2, C-22, C-276, etc). The outer diameter of our nickel alloy tee ranges from 17.3mm to 762mm. Customized size is also available.

Our products have higher quality and lower price. Our sales are more professional and responsible. Please don't hesitate to contact us!

## Specifications

- NPS: ½ ~ 48"
- SCH: 5 ~ XXS
- Classification: Straight Tee, Reducing Tee
- Pressure Level: 150lbs - 2500lbs

## Standards

ASTM B366, ASTM B366M, ASTM B462, ASME B16.9, ASME B16.11, MSS SP-25, MSS SP-43

## Features

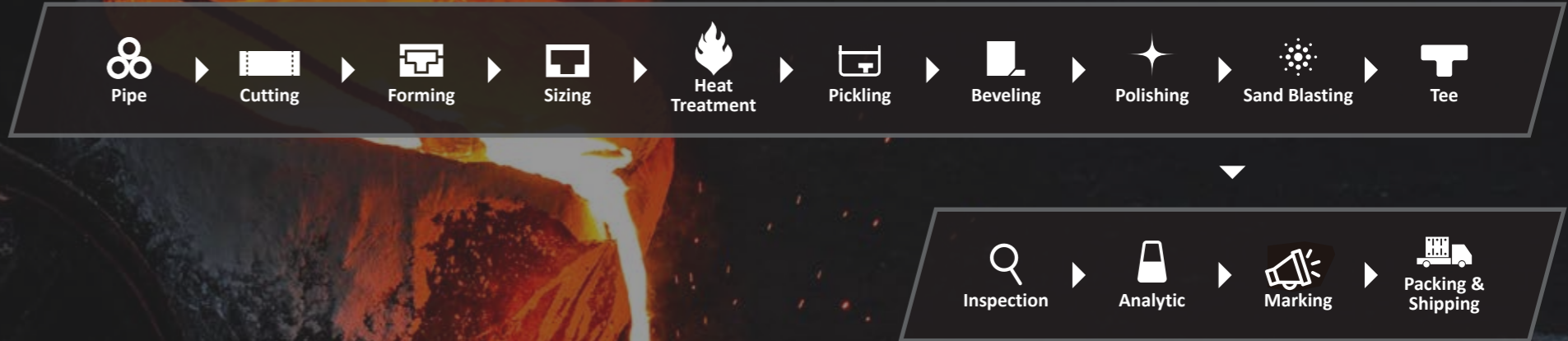
Corrosion resistance, high temperature resistance, white surface.

## Applications

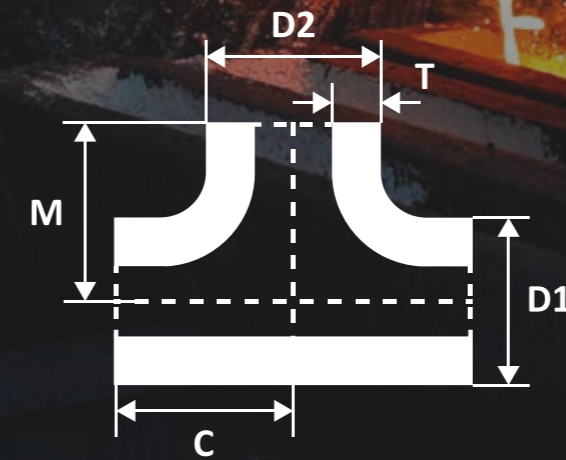
1. Ocean: Marine structures in the marine environment, seawater desalination, mariculture, seawater heat exchange, etc.
2. Environmental protection field: flue gas desulfurization device for thermal power generation, wastewater treatment, etc.
3. Energy field: nuclear power generation, comprehensive utilization of coal, sea tide power generation, etc.
4. Petrochemical industry: oil refining, chemical and chemical equipment, etc.



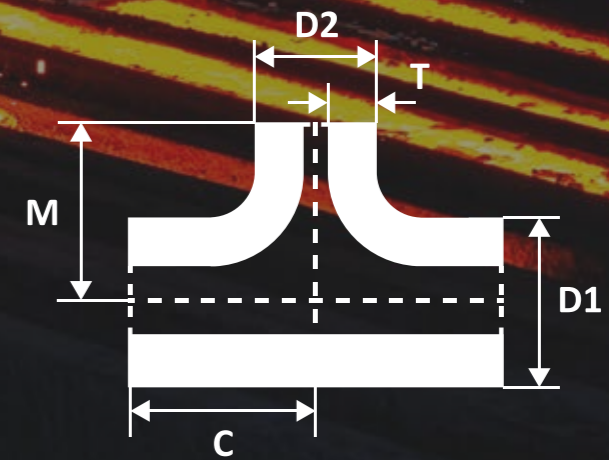
## Manufacturing Process



## Drawing



Straight Tee



Reducing Tee



## Dimensions

Nominal Pipe Size (NPS)	Outside Diameter at Bevel, mm (in.)		Center-to-End, mm (in.)		Nominal Pipe Size (NPS)	Outside Diameter at Bevel, mm (in.)		Center-to-End, mm (in.)	
	Run	Outlet	Run, C	Outlet, M		Run	Outlet	Run, C	Outlet, M
1/2x1/2x3/8	21.3(0.84)	17.3(0.68)	25(1.00)	25(1.00)	30x30x22	762(30.00)	559.0(22.00)	559(22.00)	521(20.50)
1/2x1/2x1/4	21.3(0.84)	13.7(0.54)	25(1.00)	25(1.00)	30x30x20	762(30.00)	508.0(20.00)	559(22.00)	508(20.00)
3/4x3/4x1/2	26.7(1.05)	21.3(0.84)	29(1.12)	29(1.12)	30x30x18	762(30.00)	457.0(18.00)	559(22.00)	495(19.50)
3/4x3/4x3/8	26.7(1.05)	17.3(0.68)	29(1.12)	29(1.12)	30x30x16	762(30.00)	406.4(16.00)	559(22.00)	483(19.00)
1x1x3/4	33.4(1.32)	26.7(1.05)	38(1.50)	38(1.50)	30x30x14	762(30.00)	355.6(14.00)	559(22.00)	483(19.00)
1x1x1/2	33.4(1.32)	21.3(0.84)	38(1.50)	38(1.50)	30x30x12	762(30.00)	323.8(12.75)	559(22.00)	473(18.62)
5/4x5/4x1	42.2(1.66)	33.4(1.32)	48(1.88)	48(1.88)	30x30x10	762(30.00)	273.0(10.75)	559(22.00)	460(18.12)
5/4x5/4x3/4	42.2(1.66)	26.7(1.05)	48(1.88)	48(1.88)	32x32x30	813(32.00)	762.0(30.00)	597(23.50)	584(23.00)
5/4x5/4x1/2	42.2(1.66)	21.3(0.84)	48(1.88)	48(1.88)	32x32x28	813(32.00)	711.0(28.00)	597(23.50)	572(22.5)
3/2x3/2x5/4	48.3(1.90)	42.2(1.66)	57(2.25)	57(2.25)	32x32x26	813(32.00)	660.0(26.00)	597(23.50)	572(22.50)
3/2x3/2x1	48.3(1.90)	33.4(1.32)	57(2.25)	57(2.25)	32x32x24	813(32.00)	610.0(24.00)	597(23.50)	559(22.00)
3/2x3/2x3/4	48.3(1.90)	26.7(1.05)	57(2.25)	57(2.25)	32x32x22	813(32.00)	559.0(22.00)	597(23.50)	546(21.50)
3/2x3/2x1/2	48.3(1.90)	21.3(0.84)	57(2.25)	57(2.25)	32x32x20	813(32.00)	508.0(20.00)	597(23.50)	533(21.00)
2x2x3/2	60.3(2.38)	48.3(1.90)	64(2.50)	60(2.38)	32x32x18	813(32.00)	457.0(18.00)	597(23.50)	521(20.50)
2x2x5/4	60.3(2.38)	42.2(1.66)	64(2.50)	57(2.25)	32x32x16	813(32.00)	406.4(16.00)	597(23.50)	508(20.00)
2x2x1	60.3(2.38)	33.4(1.32)	64(2.50)	51(2.00)	32x32x14	813(32.00)	355.6(14.00)	597(23.50)	508(20.00)
2x2x3/4	60.3(2.38)	26.7(1.05)	64(2.50)	44(1.75)	34x34x32	864(34.00)	813.0(32.00)	635(25.00)	622(24.50)
5/2x5/2x2	73.0(2.88)	60.3(2.38)	76(3.00)	70(2.75)	34x34x30	864(34.00)	762.0(30.00)	635(25.00)	610(24.00)
5/2x5/2x3/2	73.0(2.88)	48.3(1.90)	76(3.00)	67(2.62)	34x34x28	864(34.00)	711.0(28.00)	635(25.00)	597(23.50)
5/2x5/2x5/4	73.0(2.88)	42.2(1.66)	76(3.00)	64(2.50)	34x34x26	864(34.00)	660.0(26.00)	635(25.00)	597(23.50)
5/2x5/2x1	73.0(2.88)	33.4(1.32)	76(3.00)	57(2.25)	34x34x24	864(34.00)	610.0(24.00)	635(25.00)	584(23.00)

3x3x5/2	88.9(3.50)	73.0(2.88)	86(3.38)	83(3.25)	34x34x22	864(34.00)	559.0(22.00)	635(25.00)	572(22.50)
3x3x2	88.9(3.50)	60.3(2.38)	86(3.38)	76(3.00)	34x34x20	864(34.00)	508.0(20.00)	635(25.00)	559(22.00)
3x3x3/2	88.9(3.50)	48.3(1.90)	86(3.38)	73(2.88)	34x34x18	864(34.00)	457.0(18.00)	635(25.00)	546(21.50)
3x3x5/4	88.9(3.50)	42.2(1.66)	86(3.38)	70(2.75)	34x34x16	864(34.00)	406.4(16.00)	635(25.00)	533(21.00)
7/2x7/2x3	101.6(4.00)	88.9(3.50)	95(3.75)	92(3.62)	36x36x34	914(36.00)	864.0(34.00)	673(26.50)	660(26.00)
7/2x7/2x5/2	101.6(4.00)	73.0(2.88)	95(3.75)	89(3.50)	36x36x32	914(36.00)	813.0(32.00)	673(26.50)	648(25.50)
7/2x7/2x2	101.6(4.00)	60.3(2.38)	95(3.75)	83(3.25)	36x36x30	914(36.00)	762.0(30.00)	673(26.50)	635(25.00)
7/2x7/2x3/2	101.6(4.00)	48.3(1.90)	95(3.75)	79(3.12)	36x36x28	914(36.00)	711.0(28.00)	673(26.50)	622(24.50)
4x4x7/2	114.3(4.50)	101.6(4.00)	105(4.12)	102(4.00)	36x36x26	914(36.00)	660.0(26.00)	673(26.50)	622(24.50)
4x4x3	114.3(4.50)	88.9(3.50)	105(4.12)	98(3.88)	36x36x24	914(36.00)	610.0(24.00)	673(26.50)	610(24.00)
4x4x5/2	114.3(4.50)	73.0(2.88)	105(4.12)	95(3.75)	36x36x22	914(36.00)	559.0(22.00)	673(26.50)	597(23.50)
4x4x2	114.3(4.50)	60.3(2.38)	105(4.12)	89(3.50)	36x36x20	914(36.00)	508.0(20.00)	673(26.50)	584(23.00)
4x4x3/2	114.3(4.50)	48.3(1.90)	105(4.12)	86(3.38)	36x36x18	914(36.00)	457.0(18.00)	673(26.50)	572(22.50)
5x5x4	141.3(5.56)	114.3(4.50)	124(4.88)	117(4.62)	36x36x16	914(36.00)	406.4(16.00)	673(26.50)	559(22.00)
5x5x7/2	141.3(5.56)	101.6(4.00)	124(4.88)	114(4.50)	38x38x36	965(38.00)	914.0(36.00)	711(28.00)	711(28.00)
5x5x3	141.3(5.56)	88.9(3.50)	124(4.88)	111(4.38)	38x38x34	965(38.00)	864.0(34.00)	711(28.00)	698(27.50)
5x5x5/2	141.3(5.56)	73.0(2.88)	124(4.88)	108(4.25)	38x38x32	965(38.00)	813.0(32.00)	711(28.00)	686(27.00)
5x5x2	141.3(5.56)	60.3(2.38)	124(4.88)	105(4.12)	38x38x30	965(38.00)	762.0(30.00)	711(28.00)	673(26.50)
6x6x5	168.3(6.62)	141.3(5.56)	143(5.62)	137(5.38)	38x38x28	965(38.00)	711.0(28.00)	711(28.00)	648(25.50)
6x6x4	168.3(6.62)	114.3(4.50)	143(5.62)	130(5.12)	38x38x26	965(38.00)	660.0(26.00)	711(28.00)	648(25.50)
6x6x7/2	168.3(6.62)	101.6(4.00)	143(5.62)	127(5.00)	38x38x24	965(38.00)	610.0(24.00)	711(28.00)	635(25.00)
6x6x3	168.3(6.62)	88.9(3.50)	143(5.62)	124(4.88)	38x38x22	965(38.00)	559.0(22.00)	711(28.00)	622(24.50)
6x6x5/2	168.3(6.62)	73.0(2.88)	143(5.62)	121(4.75)	38x38x20	965(38.00)	508.0(20.00)	711(28.00)	610(24.00)
8x8x6	219.1(8.62)	168.3(6.62)	178(7.00)	168(6.62)	38x38x18	965(38.00)	457.0(18.00)	711(28.00)	597(23.50)



8×8×5	219.1(8.62)	141.3(5.56)	178(7.00)	162(6.38)	40×40×38	1016(40.00)	965.0(38.00)	749(29.50)	749(29.50)
8×8×4	219.1(8.62)	114.3(4.50)	178(7.00)	156(6.12)	40×40×36	1016(40.00)	914.0(36.00)	749(29.50)	737(29.00)
8×8×7/2	219.1(8.62)	101.6(4.00)	178(7.00)	152(6.00)	40×40×34	1016(40.00)	864.0(34.00)	749(29.50)	724(28.50)
10×10×8	273.0(10.75)	219.1(8.62)	216(8.50)	203(8.00)	40×40×32	1016(40.00)	813.0(32.00)	749(29.50)	711(28.00)
10×10×6	273.0(10.75)	168.3(6.62)	216(8.50)	194(7.62)	40×40×30	1016(40.00)	762.0(30.00)	749(29.50)	698(27.50)
10×10×5	273.0(10.75)	141.3(5.56)	216(8.50)	191(7.50)	40×40×28	1016(40.00)	711.0(28.00)	749(29.50)	673(26.50)
10×10×4	273.0(10.75)	114.3(4.50)	216(8.50)	184(7.25)	40×40×26	1016(40.00)	660.0(26.00)	749(29.50)	673(26.50)
12×12×10	323.8(12.75)	273.0(10.75)	254(10.00)	241(9.50)	40×40×24	1016(40.00)	610.0(24.00)	749(29.50)	660(26.00)
12×12×8	323.8(12.75)	219.1(8.62)	254(10.00)	229(9.00)	40×40×22	1016(40.00)	559.0(22.00)	749(29.50)	648(25.50)
12×12×6	323.8(12.75)	168.3(6.62)	254(10.00)	219(8.62)	40×40×20	1016(40.00)	508.0(20.00)	749(29.50)	635(25.00)
12×12×5	323.8(12.75)	141.3(5.56)	254(10.00)	216(8.50)	40×40×18	1016(40.00)	457.0(18.00)	749(29.50)	622(24.50)
14×14×12	355.6(14.00)	323.8(12.75)	279(11.00)	270(10.62)	42×42×40	1067(42.00)	1016.0(40.00)	762(30.00)	711(28.00)
14×14×10	355.6(14.00)	273.0(10.75)	279(11.00)	257(10.12)	42×42×38	1067(42.00)	965.0(38.00)	762(30.00)	711(28.00)
14×14×8	355.6(14.00)	219.1(8.62)	279(11.00)	248(9.75)	42×42×36	1067(42.00)	914.0(36.00)	762(30.00)	711(28.00)
14×14×6	355.6(14.00)	168.3(6.62)	279(11.00)	238(9.38)	42×42×34	1067(42.00)	864.0(34.00)	762(30.00)	711(28.00)
16×16×14	406.4(16.00)	355.6(14.00)	305(12.00)	305(12.00)	42×42×32	1067(42.00)	813.0(32.00)	762(30.00)	711(28.00)
16×16×12	406.4(16.00)	323.8(12.75)	305(12.00)	295(11.62)	42×42×30	1067(42.00)	762.0(30.00)	762(30.00)	711(28.00)
16×16×10	406.4(16.00)	273.0(10.75)	305(12.00)	283(11.12)	42×42×28	1067(42.00)	711.0(28.00)	762(30.00)	698(27.50)
16×16×8	406.4(16.00)	219.1(8.62)	305(12.00)	273(10.75)	42×42×26	1067(42.00)	660.0(26.00)	762(30.00)	698(27.50)
16×16×6	406.4(16.00)	168.3(6.62)	305(12.00)	264(10.38)	42×42×24	1067(42.00)	610.0(24.00)	762(30.00)	660(26.00)
18×18×16	457(18.00)	406.4(16.00)	343(13.50)	330(13.00)	42×42×22	1067(42.00)	559.0(22.00)	762(30.00)	660(26.00)
18×18×14	457(18.00)	355.6(14.00)	343(13.50)	330(13.00)	42×42×20	1067(42.00)	508.0(20.00)	762(30.00)	660(26.00)
18×18×12	457(18.00)	323.8(12.75)	343(13.50)	321(12.62)	42×42×18	1067(42.00)	457.0(18.00)	762(30.00)	648(25.50)
18×18×10	457(18.00)	273.0(10.75)	343(13.50)	308(12.12)	42×42×16	1067(42.00)	406.4(16.00)	762(30.00)	635(25.00)

18×18×8	457(18.00)	219.1(8.62)	343(13.50)	298(11.75)	44×44×42	1118(44.00)	1067.0(42.00)	813(32.00)	762(30.00)
20×20×18	508(20.00)	457.0(18.00)	381(15.00)	368(14.50)	44×44×40	1118(44.00)	1016.0(40.00)	813(32.00)	749(29.50)
20×20×16	508(20.00)	406.4(16.00)	381(15.00)	356(14.00)	44×44×38	1118(44.00)	965.0(38.00)	813(32.00)	737(29.00)
20×20×14	508(20.00)	355.6(14.00)	381(15.00)	356(14.00)	44×44×36	1118(44.00)	914.0(36.00)	813(32.00)	724(28.50)
20×20×12	508(20.00)	323.8(12.75)	381(15.00)	346(13.62)	44×44×34	1118(44.00)	864.0(34.00)	813(32.00)	724(28.50)
20×20×10	508(20.00)	273.0(10.75)	381(15.00)	333(13.12)	44×44×32	1118(44.00)	813.0(32.00)	813(32.00)	711(28.00)
20×20×8	508(20.00)	219.1(8.62)	381(15.00)	324(12.75)	44×44×30	1118(44.00)	762.0(30.00)	813(32.00)	711(28.00)
22×22×20	559(22.00)	508.0(20.00)	419(16.50)	406(16.00)	44×44×28	1118(44.00)	711.0(28.00)	813(32.00)	698(27.50)
22×22×18	559(22.00)	457.0(18.00)	419(16.50)	394(15.50)	44×44×26	1118(44.00)	660.0(26.00)	813(32.00)	698(27.50)
22×22×16	559(22.00)	406.4(16.00)	419(16.50)	381(15.00)	44×44×24	1118(44.00)	610.0(24.00)	813(32.00)	698(27.50)
22×22×14	559(22.00)	355.6(14.00)	419(16.50)	381(15.00)	44×44×22	1118(44.00)	559.0(22.00)	813(32.00)	686(27.00)
22×22×12	559(22.00)	323.8(12.75)	419(16.50)	371(14.62)	44×44×20	1118(44.00)	508.0(20.00)	813(32.00)	686(27.00)
22×22×10	559(22.00)	273.0(10.75)	419(16.50)	359(14.12)	46×46×44	1168(46.00)	1118.0(44.00)	851(33.50)	800(31.50)
24×24×22	610(24.00)	559.0(22.00)	432(17.00)	432(17.00)	46×46×42	1168(46.00)	1067.0(42.00)	851(33.50)	787(31.00)
24×24×20	610(24.00)	508.0(20.00)	432(17.00)	432(17.00)	46×46×40	1168(46.00)	1016.0(40.00)	851(33.50)	775(30.50)
24×24×18	610(24.00)	457.0(18.00)	432(17.00)	419(16.50)	46×46×38	1168(46.00)	965.0(38.00)	851(33.50)	762(30.00)
24×24×16	610(24.00)	406.4(16.00)	432(17.00)	406(16.00)	46×46×36	1168(46.00)	914.0(36.00)	851(33.50)	762(30.00)
24×24×14	610(24.00)	355.6(14.00)	432(17.00)	406(16.00)	46×46×34	1168(46.00)	864.0(34.00)	851(33.50)	749(29.50)
24×24×12	610(24.00)	323.8(12.75)	432(17.00)	397(15.62)	46×46×32	1168(46.00)	813.0(32.00)	851(33.50)	749(29.50)
24×24×10	610(24.00)	273.0(10.75)	432(17.00)	384(15.12)	46×46×30	1168(46.00)	762.0(30.00)	851(33.50)	737(29.00)
26×26×24	660(26.00)	610.0(24.00)	495(19.50)	483(19.00)	46×46×28	1168(46.00)	711.0(28.00)	851(33.50)	737(29.00)
26×26×22	660(26.00)	559.0(22.00)	495(19.50)	470(18.50)	46×46×26	1168(46.00)	660.0(26.00)	851(33.50)	737(29.00)
26×26×20	660(26.00)	508.0(20.00)	495(19.50)	457(18.00)	46×46×24	1168(46.00)	610.0(24.00)	851(33.50)	724(28.50)
26×26×18	660(26.00)	457.0(18.00)	495(19.50)	444(17.50)	46×46×22	1168(46.00)	559.0(22.00)	851(33.50)	724(28.50)





26×26×16	660(26.00)	406.4(16.00)	495(19.50)	432(17.00)	48×48×46	1219(48.00)	1168.0(46.00)	889(35.00)	838(33.00)
26×26×14	660(26.00)	355.6(14.00)	495(19.50)	432(17.00)	48×48×44	1219(48.00)	1118.0(44.00)	889(35.00)	838(33.00)
26×26×12	660(26.00)	323.8(12.75)	495(19.50)	422(16.62)	48×48×42	1219(48.00)	1067.0(42.00)	889(35.00)	813(32.00)
28×28×26	711(28.00)	660.0(26.00)	521(20.50)	521(20.50)	48×48×40	1219(48.00)	1016.0(40.00)	889(35.00)	813(32.00)
28×28×24	711(28.00)	610.0(24.00)	521(20.50)	508(20.00)	48×48×38	1219(48.00)	965.0(38.00)	889(35.00)	813(32.00)
28×28×22	711(28.00)	559.0(22.00)	521(20.50)	495(19.50)	48×48×36	1219(48.00)	914.0(36.00)	889(35.00)	787(31.00)
28×28×20	711(28.00)	508.0(20.00)	521(20.50)	483(19.00)	48×48×34	1219(48.00)	864.0(34.00)	889(35.00)	787(31.00)
28×28×18	711(28.00)	457.0(18.00)	521(20.50)	470(18.50)	48×48×32	1219(48.00)	813.0(32.00)	889(35.00)	787(31.00)
28×28×16	711(28.00)	406.4(16.00)	521(20.50)	457(18.00)	48×48×30	1219(48.00)	762.0(30.00)	889(35.00)	762(30.00)
28×28×14	711(28.00)	355.6(14.00)	521(20.50)	457(18.00)	48×48×28	1219(48.00)	711.0(28.00)	889(35.00)	762(30.00)
28×28×12	711(28.00)	323.8(12.75)	521(20.50)	448(17.62)	48×48×26	1219(48.00)	660.0(26.00)	889(35.00)	762(30.00)
30×30×28	762(30.00)	711.0(28.00)	559(22.00)	546(21.50)	48×48×24	1219(48.00)	610.0(24.00)	889(35.00)	737(29.00)
30×30×26	762(30.00)	660.0(26.00)	559(22.00)	546(21.50)	48×48×22	1219(48.00)	559.0(22.00)	889(35.00)	737(29.00)
30×30×24	762(30.00)	610.0(24.00)	559(22.00)	533(21.00)					

## Delivery State

Delivery State Choice	Surface Condition
Annealed	Pickled
	Polished
	Sand Blasted

### Note:

1. If you require different deliver state than the above listed, kindly confirm with us.
2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.



## Package



Plastic Bag



Wooden Case



Wooden Pallet

At Rahul Ferrometal, all our nickel alloy tees are packed in accordance with international standards to prevent any possible damage or loss. For smaller tees, we will pack each tee individually with plastic bag and finally put it in a wooden box for protection. For larger tees, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection. Please note that wooden cases may incur additional costs, not only their own costs, but also increase freight costs, especially for air transportation. In order to enhance the customer experience, we also provide special packaging according to your special requirements.

## Logistics



By Sea



By Air

Sea transportation is the most popular for most orders, hence regarded as the default transportation mode. Accordingly, quotation is thus made as per FOB, CFR, CIF etc.. For urgent demand, we can also offer as per air transportation.

## FAQ

Q

Can you polish the nickel alloy tee?

Yes, if you have the corresponding needs, we will perform internal and external polishing.

A

Q

What kinds of tees are there?

There are straight tees and reducing tees for your choice.

A

Q

What are the main grades of nickel alloy tee?

Monel 400, Monel K-500, Inconel 600, Inconel 625, Inconel 718, Incoloy 800, Incoloy 825, Hastelloy B-3, Hastelloy C-276, etc.

A

Q

Where's your main market?

South America, North America, Asia, Middle East, Europe, Africa etc.

A

Q

What is your standard packaging?

For smaller tees, we will pack each tee individually with plastic bag, and finally put it in wooden case for protection. For larger tees, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection.

A





Nickel Alloy  
Pipe Cap

# Basic Information



## Overview

As a leading Chinese nickel alloy pipe & tube supplier, Rahul Ferrometal produces and manufactures various of nickel alloy pipe caps for your choice. Nickel alloy pipe caps, also called nickel alloy heads, are pipe fittings welded on the pipe end or installed on the external thread of the pipe end to cover the pipe. Nickel alloy pipe caps are cut from nickel alloy plates into a round shape and then formed. For this reason, we will choose high-quality nickel alloy plates as raw materials to ensure the quality of the finished products. Nickel alloy pipe caps have excellent corrosion resistance and high temperature resistance. We produce nickel alloy pipe caps in various materials and sizes according to the ISO 9001 standard.

Rahul Ferrometal supplies different nickel alloy grades: Monel(400, 401, K-500, etc), Inconel(600, 601, 625, 718, etc), Incoloy(800, 825, A-286, etc) and Hastelloy(B-2, C-22, C-276, etc). The outer diameter of our nickel alloy pipe cap ranges from 21.3mm to 1219mm. Customized size is also available.

Our products have higher quality and lower price. Our sales are more professional and responsible. Please don't hesitate to contact us!

## Specifications

- NPS: ½ ~ 48"
- SCH: 5 ~ XXS
- Classification: Hemispherical cap, elliptical/oval cap, dish cap, spherical cap

## Standards

ASTM B366, ASTM B366M, ASTM B462, ASME B16.9, ASME B16.11, MSS SP-25, MSS SP-43

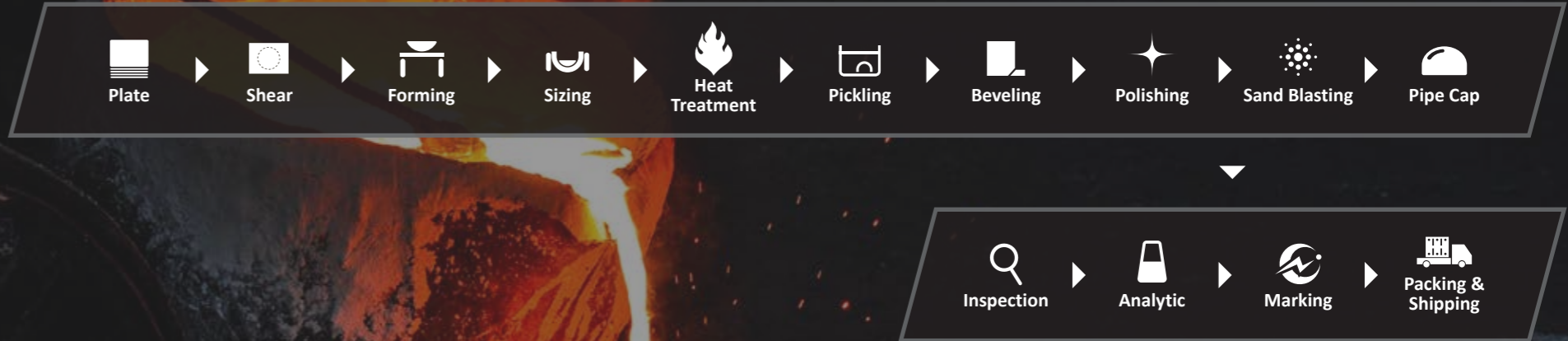
## Features

Corrosion resistance, high temperature resistance, white surface.

## Applications

1. Ocean: Marine structures in the marine environment, seawater desalination, mariculture, seawater heat exchange, etc.
2. Environmental protection field: flue gas desulfurization device for thermal power generation, wastewater treatment, etc.
3. Energy field: nuclear power generation, comprehensive utilization of coal, sea tide power generation, etc.
4. Petrochemical industry: oil refining, chemical and chemical equipment, etc.

## Manufacturing Process



## Drawing



## Dimensions

Nominal Pipe Size (NPS)	Outside Diameter at Bevel, mm (in.)	Length, E, mm (in.)	Limiting Wall Thickness for Length, E, mm (in.)	Length, E1, mm (in.)
1/2	21.3(0.84)	25(1.00)	4.57(0.18)	25(1.00)
3/4	26.7(1.05)	25(1.00)	3.81(0.15)	25(1.00)
1	33.4(1.32)	38(1.50)	4.57(0.18)	38(1.50)
5/4	42.2(1.66)	38(1.50)	4.83(0.19)	38(1.50)
3/2	48.3(1.90)	38(1.50)	5.08(0.20)	38(1.50)
2	60.3(2.38)	38(1.50)	5.59(0.22)	44(1.75)
5/2	73.0(2.88)	38(1.50)	7.11(0.28)	51(2.00)
3	88.9(3.50)	51(2.00)	7.62(0.30)	64(2.50)
7/2	101.6(4.00)	64(2.50)	8.13(0.32)	76(3.00)
4	114.3(4.50)	64(2.50)	8.64(0.34)	76(3.00)
5	141.3(5.56)	76(3.00)	9.65(0.38)	89(3.50)
6	168.3(6.62)	89(3.50)	10.92(0.43)	102(4.00)
8	219.1(8.62)	102(4.00)	12.70(0.50)	127(5.00)
10	273.0(10.75)	127(5.00)	12.70(0.50)	152(6.00)
12	323.8(12.75)	152(6.00)	12.70(0.50)	178(7.00)
14	355.6(14.00)	165(6.50)	12.70(0.50)	191(7.50)
16	406.4(16.00)	178(7.00)	12.70(0.50)	203(8.00)
18	457.0(18.00)	203(8.00)	12.70(0.50)	229(9.00)
20	508.0(20.00)	229(9.00)	12.70(0.50)	254(10.00)
22	559.0(22.00)	254(10.00)	12.70(0.50)	254(10.00)
24	610.0(24.00)	267(10.50)	12.70(0.50)	305(12.00)
26	660.0(26.00)	267(10.50)	...	...

28	711.0(28.00)	267(10.50)	...	...
30	762.0(30.00)	267(10.50)	...	...
32	813.0(32.00)	267(10.50)	...	...
34	864.0(34.00)	267(10.50)	...	...
36	914.0(36.00)	267(10.50)	...	...
38	965.0(38.00)	305(12.00)	...	...
40	1016.0(40.00)	305(12.00)	...	...
42	1067.0(42.00)	305(12.00)	...	...
44	1118.0(44.00)	343(13.50)	...	...
46	1168.0(46.00)	343(13.50)	...	...
48	1219.0(48.00)	343(13.50)	...	...

- Note:
- Length E applies for thickness not exceeding that given in column "Limiting Wall Thickness for Length, E."
  - Length E1 applies for thickness greater than that given in column "Limiting Wall Thickness for Length, E" for NPS 24 and smaller. For NPS 26 and sublarger, length E1 shall be by agreement between the manufacturer and purchaser.

## Delivery State

Delivery State Choice	Surface Condition
Annealed	Pickled
	Polished
	Sand Blasted

- Note:
- If you require different deliver state than the above listed, kindly confirm with us.
  - In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.



## FAQ

**Q** Can you polish the nickel alloy pipe cap?

Yes, if you have the corresponding needs, we will perform internal and external polishing.

**A**

**Q** What are the sizes of nickel alloy pipe caps?

The outside diameter ranges from 21.3mm to 1219mm. The wall thickness ranges from 4.57mm to 12.7mm.

**A**

**Q** What are the main grades of nickel alloy pipe cap?

Monel 400, Monel K-500, Inconel 600, Inconel 625, Inconel 718, Incoloy 800, Incoloy 825, Hastelloy B-3, Hastelloy C-276, etc.

**A**

**Q** Where's your main market?

South America, North America, Asia, Middle East, Europe, Africa etc.

**A**

**Q** What is your standard packaging?

For smaller pipe caps, we will pack each pipe cap individually with plastic bag, and finally put it in wooden case for protection. For larger pipe caps, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection.

**A**

## Package



**Plastic Bag**



**Wooden Case**



**Wooden Pallet**

At Rahul Ferrometal, all our nickel alloy pipe caps are packed accordance with international standards to prevent any possible damage or loss. For smaller pipe caps, we will pack each pipe cap individually with plastic bag and finally put it in a wooden box for protection. For larger pipe caps, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection. Please note that wooden cases may incur additional costs, not only their own costs, but also increase freight costs, especially for air transportation. In order to enhance the customer experience, we also provide special packaging according to your special requirements.

## Logistics



**By Sea**



**By Air**

Sea transportation is the most popular for most orders, hence regarded as the default transportation mode. Accordingly, quotation is thus made as per FOB, CFR, CIF etc.. For urgent demand, we can also offer as per air transportation.

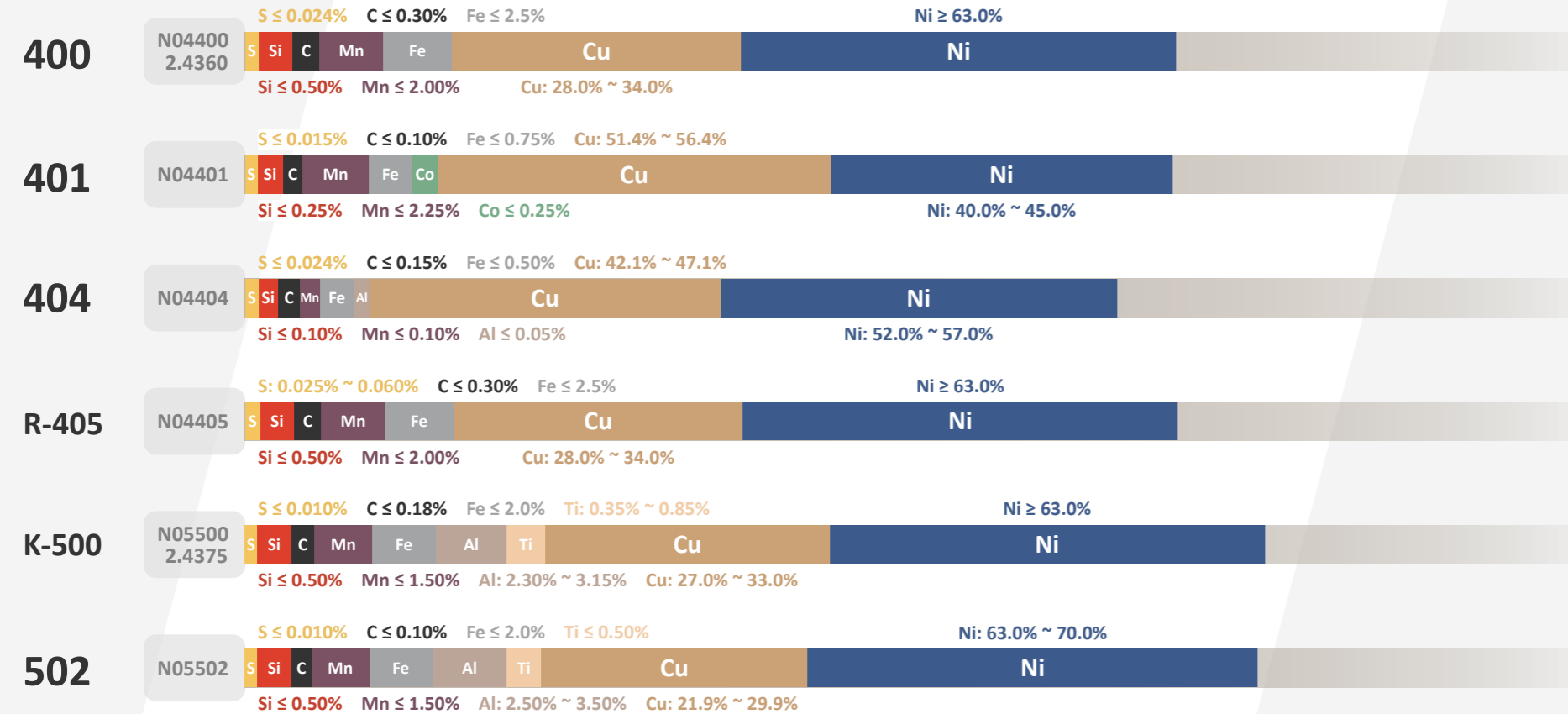


**Rahul Ferrometal**

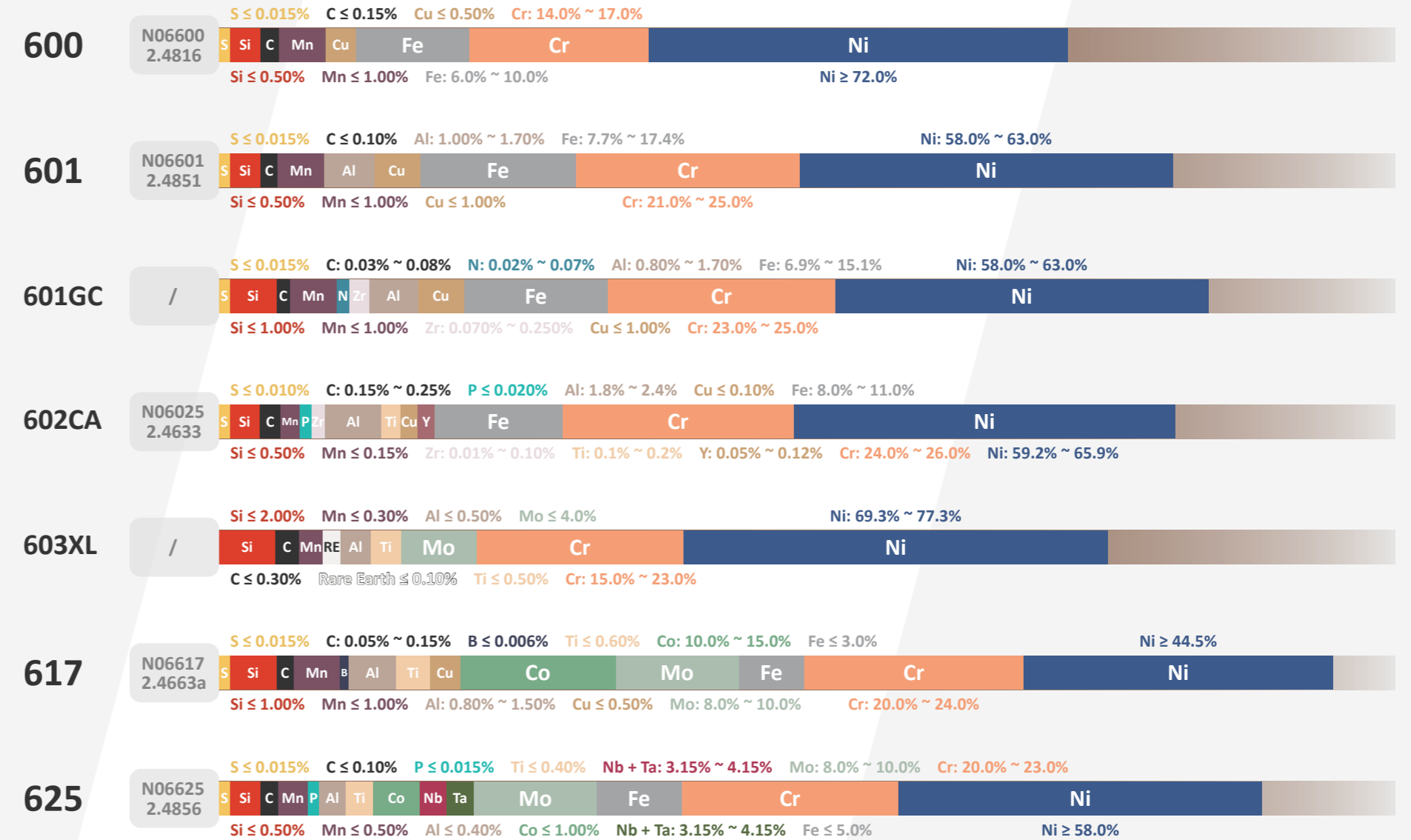


# GRADES AVAILABLE

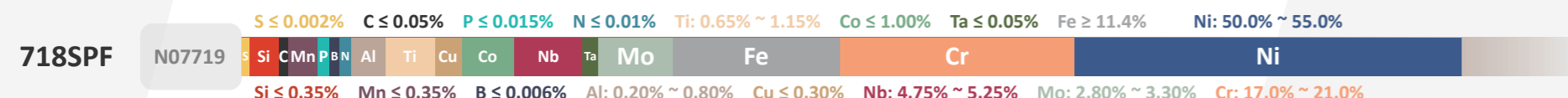
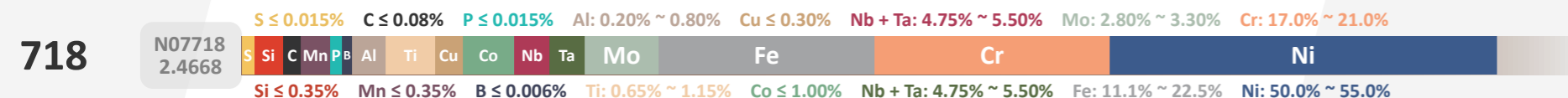
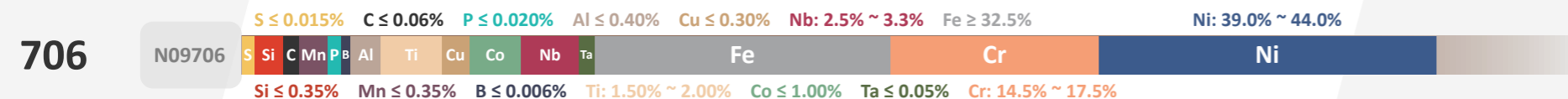
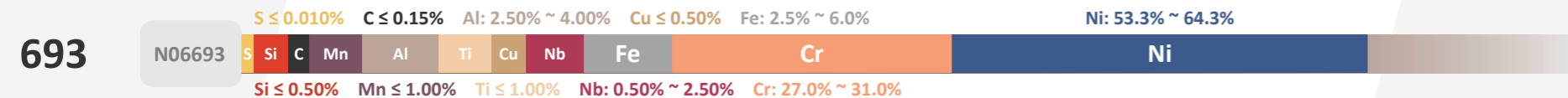
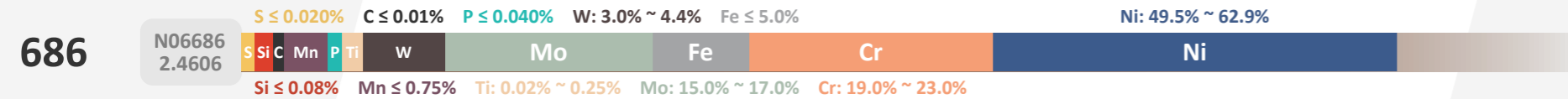
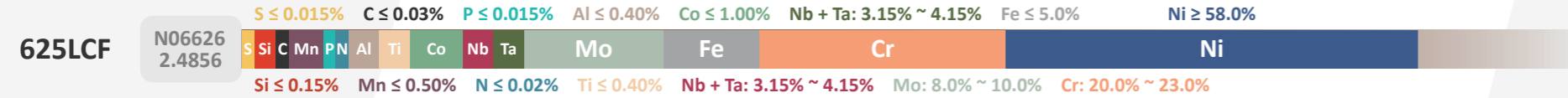
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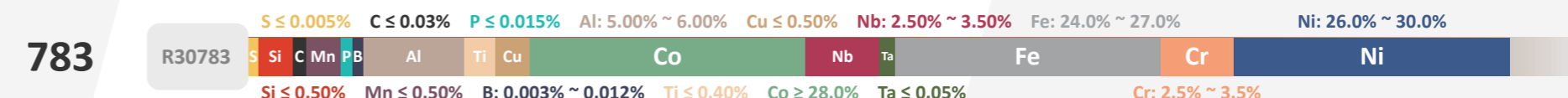
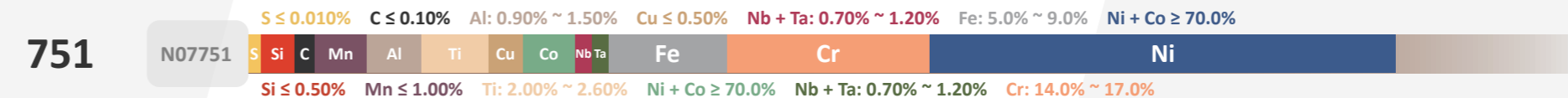
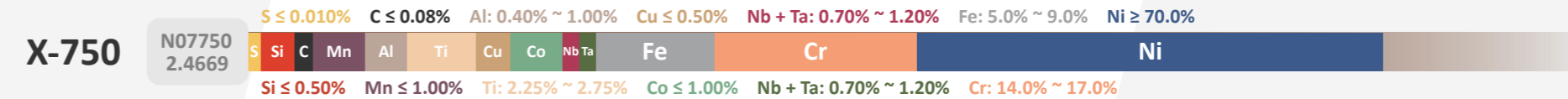
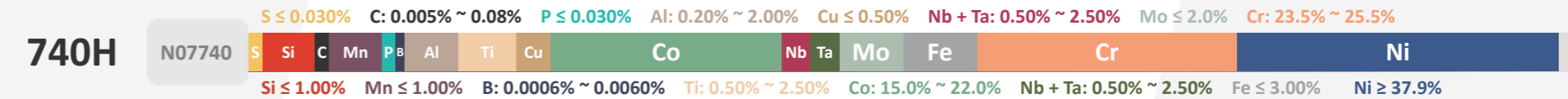
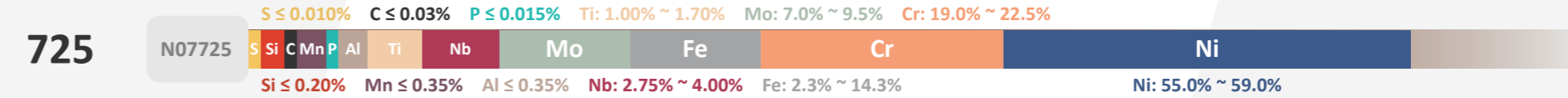
## INCONEL



## INCONEL

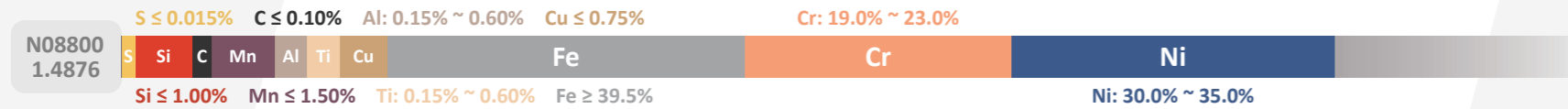


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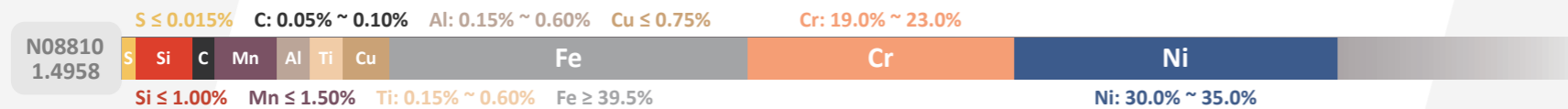


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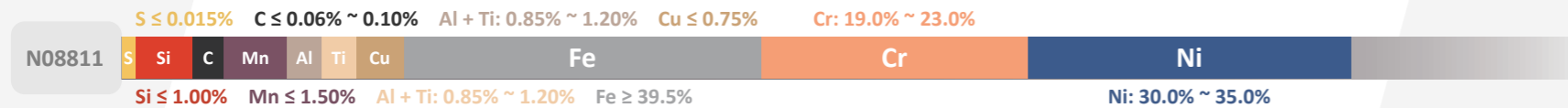
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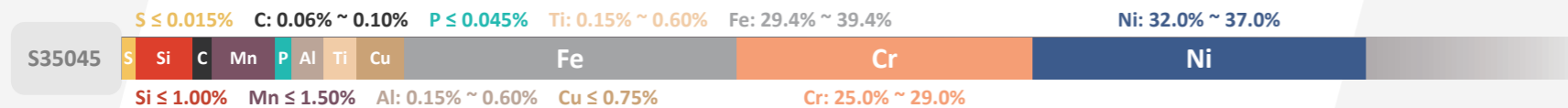
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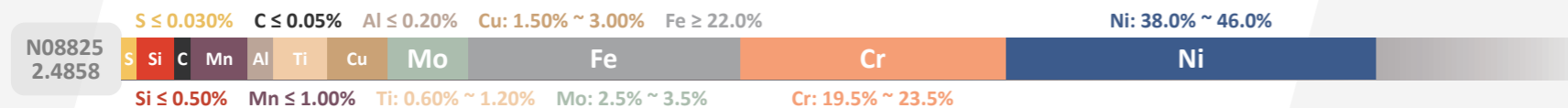
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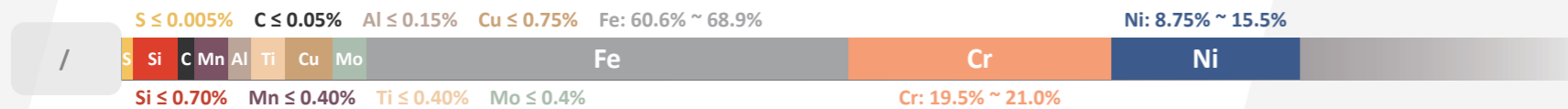
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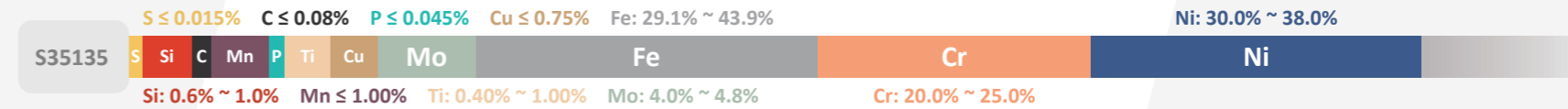


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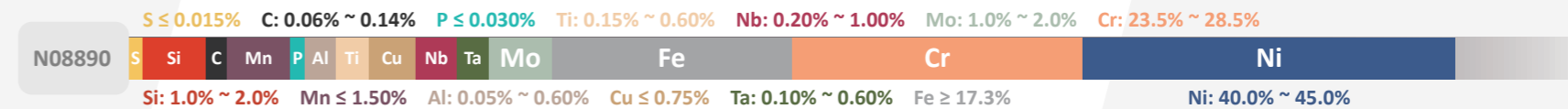


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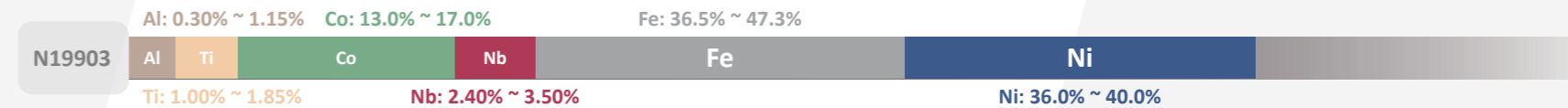
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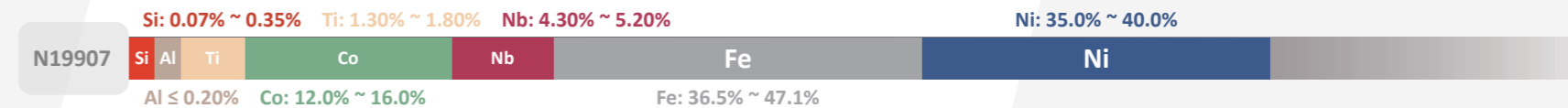
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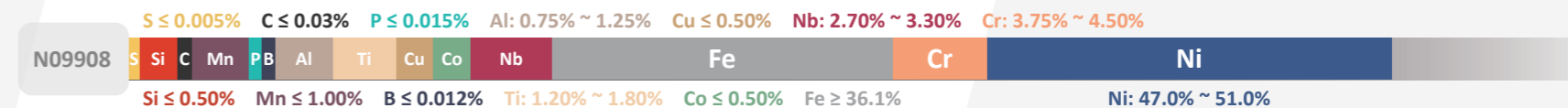
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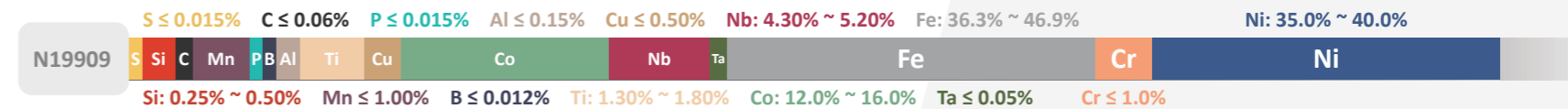
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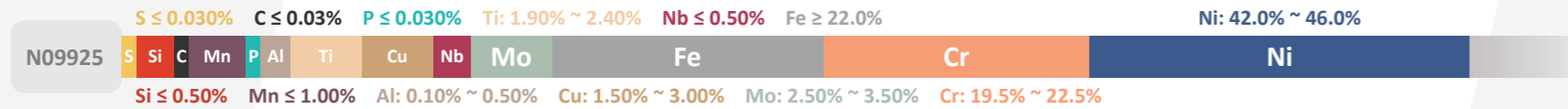
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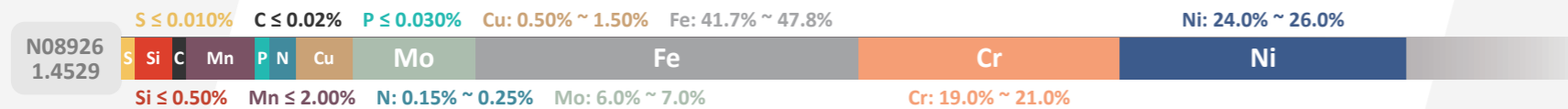


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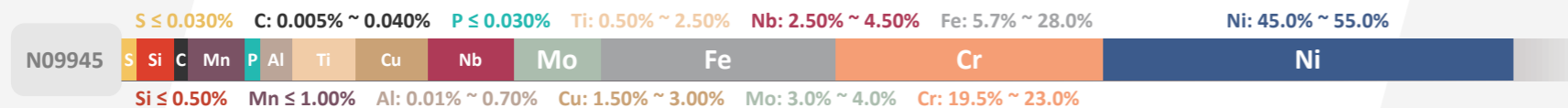
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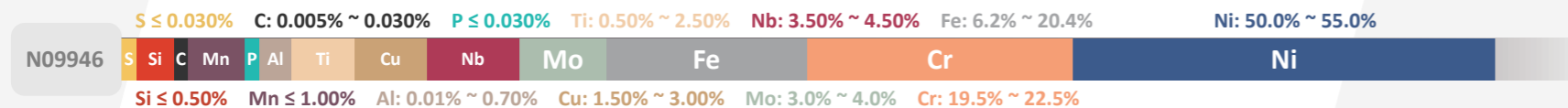
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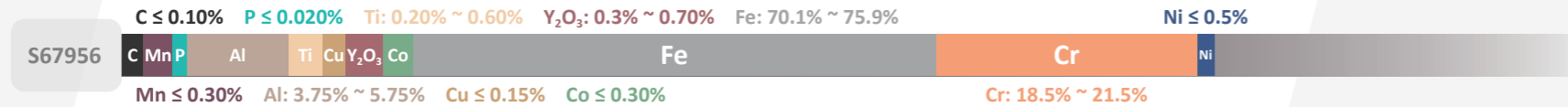
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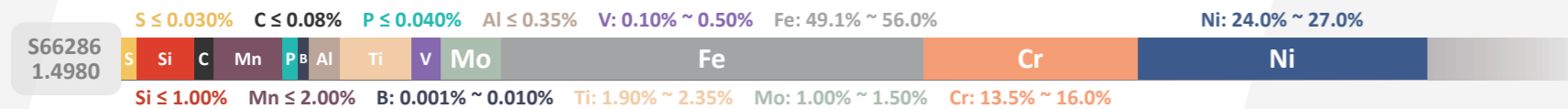
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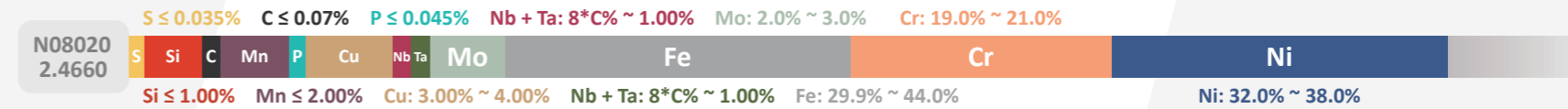


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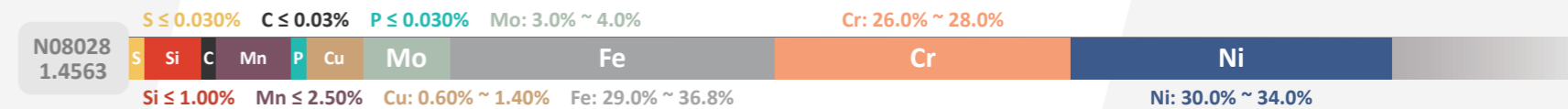


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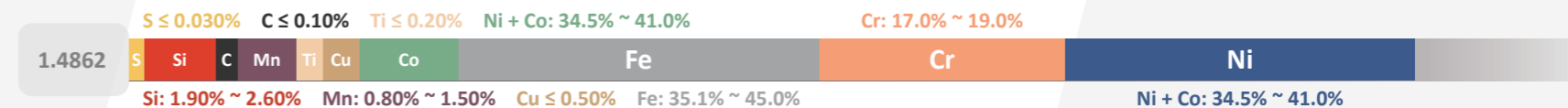
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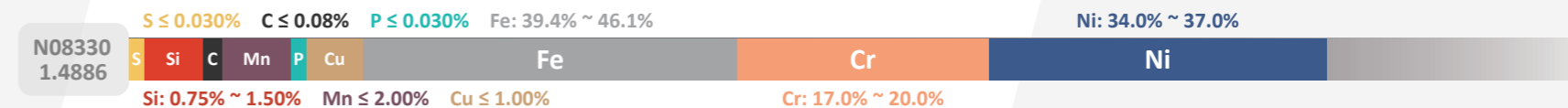
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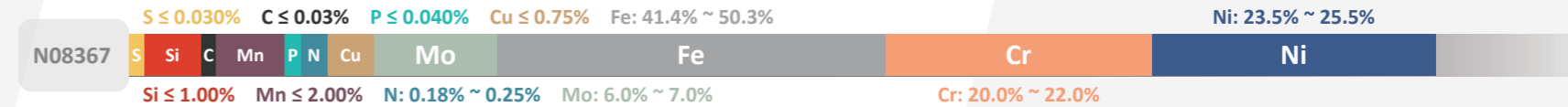
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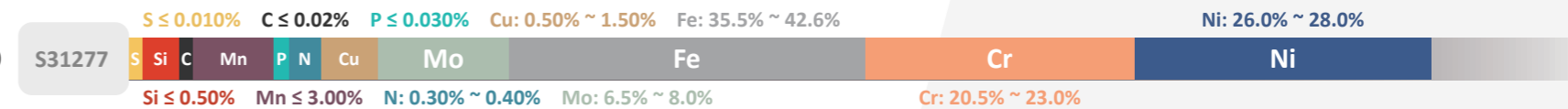
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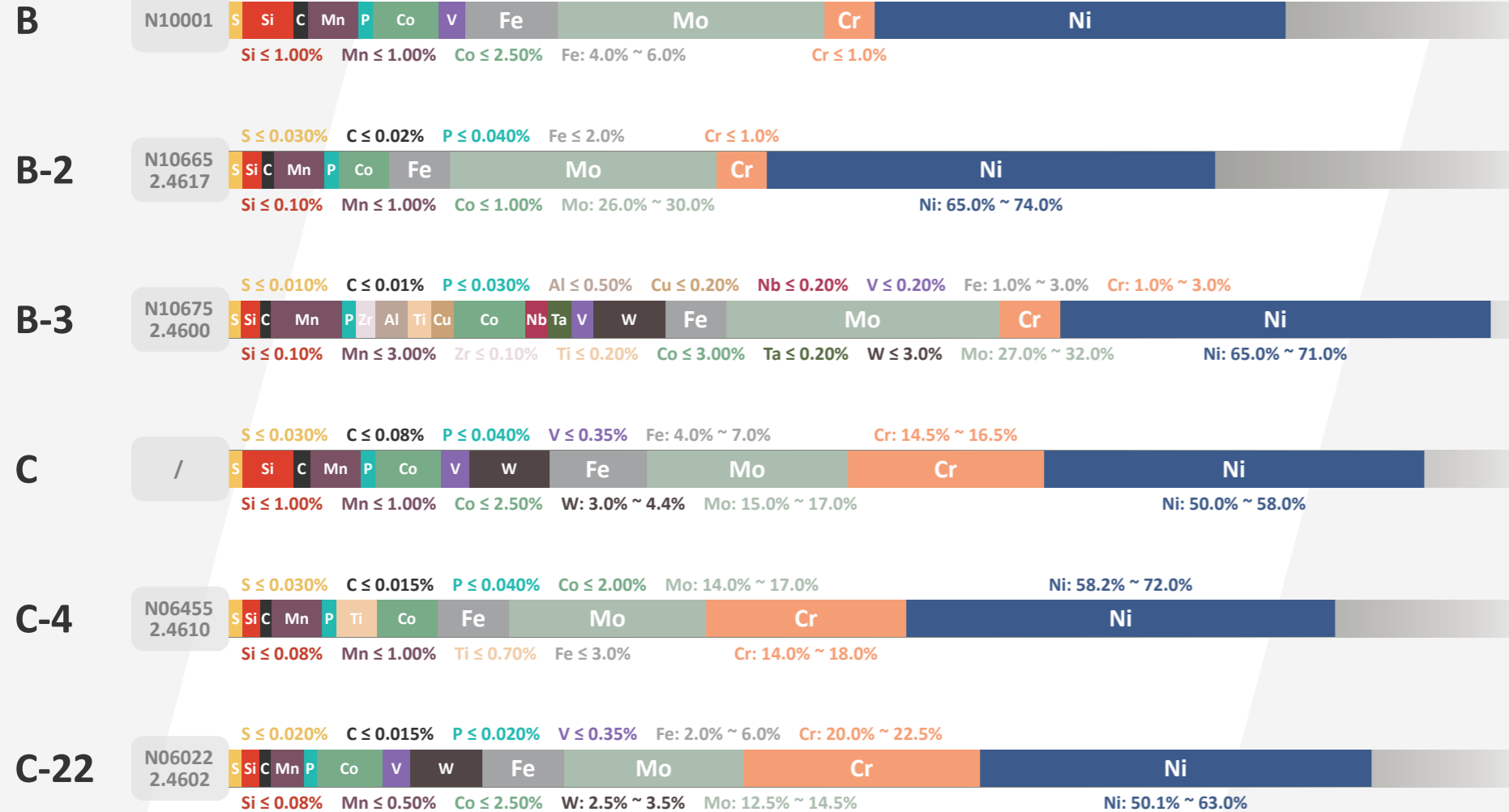
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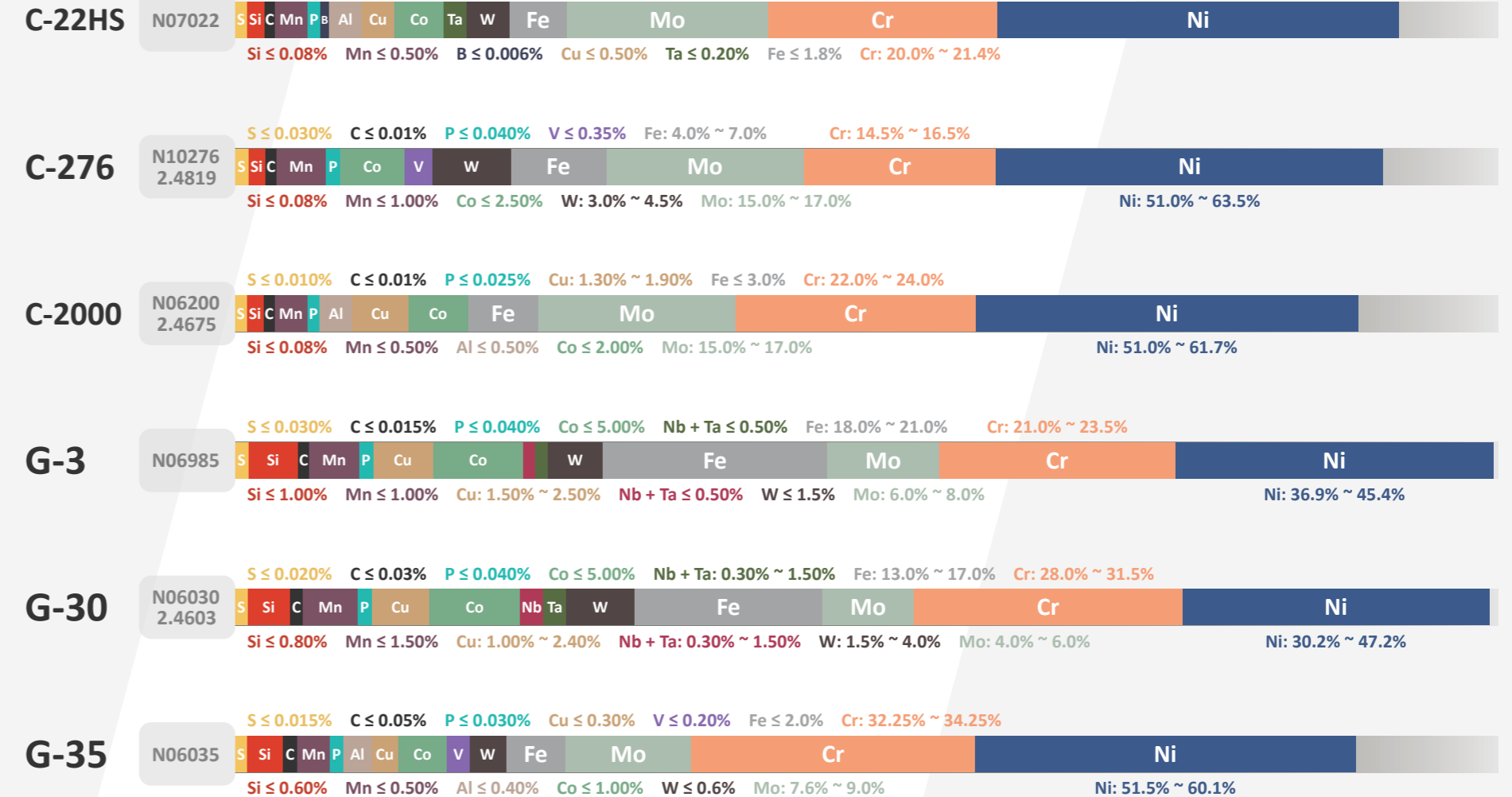
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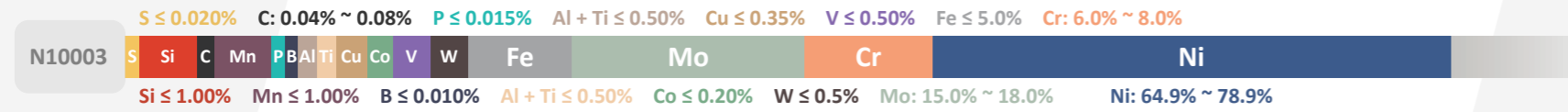


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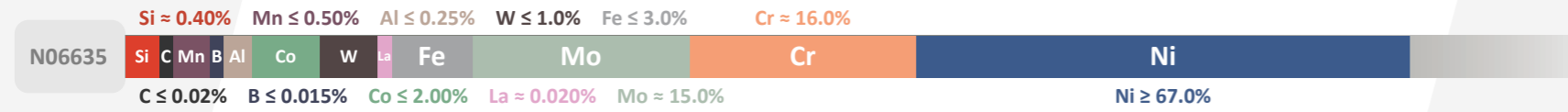


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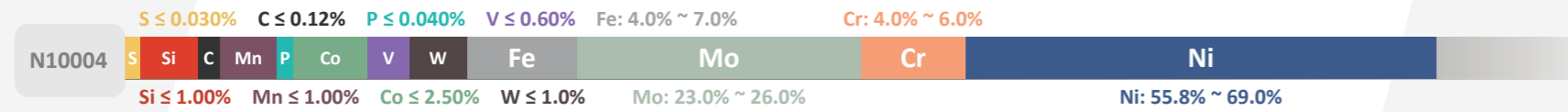
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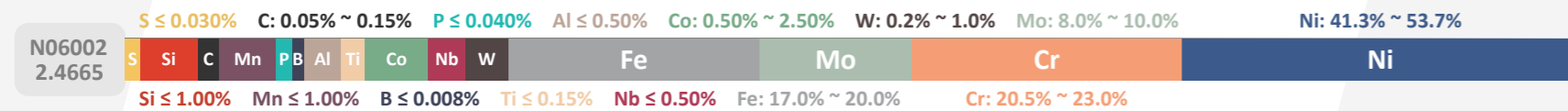
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