

# HIGH-PERFORMANCE ALLOYS FOR CRITICAL APPLICATIONS

Special Metals is a world leader in the invention, production and supply of high-performance alloys. In fact, we've invented over 80 percent of the alloys in the market today. These alloys are engineered to offer a superior combination of heat and corrosion resistance, strength, toughness and fabricability for optimum performance in the most technically demanding applications. By offering the world's largest range of nickel alloys, cobalt alloys and product forms—coupled with a broad distribution network—our products are available to every industrialized nation across the globe.

## ALLOY FAMILIES

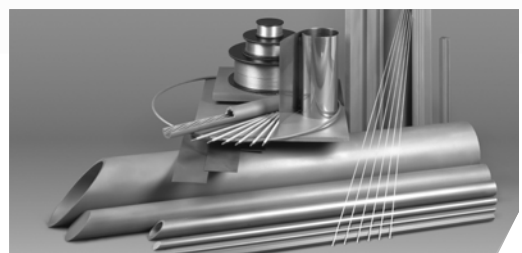
- Nickel
- INCONEL®
- NIMONIC®
- INCO-WELD®
- MONEL®
- INCOLOY®
- UDIMET®
- NILO®

## PRODUCT FORMS

- Hot Rolled Plate
- Seamless Tube and Pipe
- Cold Drawn Wire
- Ingot
- Welding Electrodes
- Welding Fluxes
- Cold Rolled Sheet and Strip
- Hot Rolled Wire Rod
- Hot & Cold Finished Rod and Bar
- Forging Stock
- Welding Filler Metals

## MARKETS/INDUSTRIES SERVED

- Chemical
- Thermal Processing
- Petroleum Refining
- Power
- Defense
- Petrochemical
- Oil and Gas Extraction
- Marine
- Aerospace
- Automotive



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## BILLET AND BAR PRODUCTS

### **Billet and Bar**

Diameters 0.5 in. to 15 in. [12.7 mm to 381 mm] and weights up to ca. 20,000 lb. [9,000 kg]

### **Round Cornered Squares**

4 in. to 14 in. [102 mm to 356 mm] across flats and weights up to approx. 20,000 lb. [9,000 kg]

### **Hot Rolled Rod**

Diameters 0.5 in. to 12 in. [13 mm to 305 mm] and lengths up to ca. 20 ft. [6 m]. Longer lengths on application

### **Hot Rolled Wire Rod**

Diameters 0.217 in. to 1 in. [5.51 mm to 25 mm] in coil form

### **Cold Drawn Rounds**

Diameters 0.5 in. to 4 in. [13 mm to 102 mm] and lengths up to approx. 32 ft. [10 m]

### **Cold Drawn Hexagons**

0.5 in. to 4 in. [13 mm to 101.6 mm] across flats and lengths up to ca. 20 ft. [6 m]

### **Cold Drawn Wire**

Diameters from 0.2 in. to 0.59 in. [0.8 mm to 15 mm] available in coil, on reels and in "pay-off packs"

### **Ingot**

Diameter up to 44 in.

## TUBULAR PRODUCTS

### **Cold Worked Seamless Pipe and Tube**

0.75 in. to 8.625 in. [19.1 mm to 219 mm] O.D. range

### **Hot Worked (Extruded) Seamless Pipe and Tube**

3.5 in. to 8.625 in. [88.9 mm to 219.1 mm] O.D. range

## FLAT PRODUCTS

### **Hot Rolled Plate**

Thickness from 0.187 in. to 4 in. [4.76 mm to 102 mm] and widths from 48 in. to 98 in. [1,220 mm to 2,500 mm]

### **Cold Rolled Sheet**

Thickness from 0.008 in. to 0.25 in. [0.20 mm to 6.4 mm] and widths to 48 in. [1,219 mm]

### **Cold Rolled Strip**

Thickness from 0.008 in. to 0.125 in. [0.20 mm to 3.2 mm] and widths down to 0.75 in. [19 mm]

## WELDING PRODUCTS

### **Filler Metals**

Diameters from 0.030 in. to 0.125 in. [0.8 mm to 3.2 mm] in 36 in. [915 mm] straight lengths and on 30 lb. [13.6 kg] spools

### **Welding Electrodes**

Diameters from 0.094 in. to 0.188 in. [2.4 mm to 4.8 mm] in 10 lb. [4.54 kg] hermetically sealed containers

### **Weldstrip**

1.18 in. to 4.72 in. [30 mm to 120 mm] on 60 lb. [27.22 kg] coils

### **Submerged Arc and Electroslag Welding Fluxes**

50 lb. to 60 lb. [22.68 kg to 27.22 kg] hermetically sealed polyethylene buckets and 44 lb. [20 kg] polyethylene bags

## PUSHING WHAT'S POSSIBLE IN THE ENERGY INDUSTRY

The names that comprise PCC Energy Group have been on the forefront of the energy industry for decades. As part of PCC Energy Group, Special Metals works to help you better tackle your toughest energy industry needs. Backed by the strength and leadership of our Fortune 500 parent company, Precision Castparts Corp., our engineers and metallurgists work closely with the world's most innovative energy companies to identify high-performance applications where we can help enhance operational performance.



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