

## Description

AMETEK manufactures strip developed specifically for use as an outer sheathing layer for powder-filled hard-facing weld wire. Customers can choose to purchase pancake coils OR continuous oscillated wound reels up to 700 lbs (320 kgs). AMETEK's oscillated wound product is a continuous length spool that contains NO FINISH GAUGE WELDS. Customers can realize a savings of up to 3 hours of downtime per reel vs. welding individual pancakes together.

### Alloys Offered:

- Ductile Cobalt
- High Purity Nickel
- Nickel-Iron
- Nickel-Chrome
- Custom and Unique Chemistries
- Tolling Services are available

### Size Range:

#### Thickness

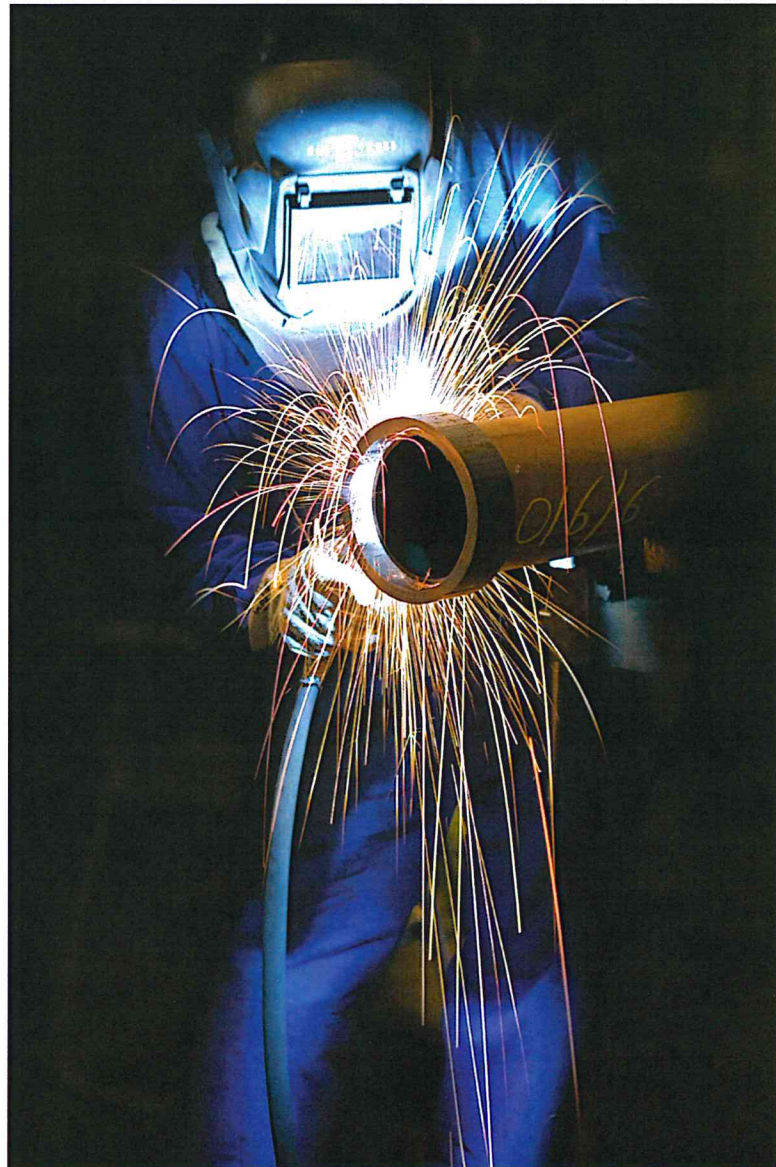
0.007" - 0.020"

(0.18mm - 0.50mm)

#### Width

0.275" - 0.750"

(7.0mm - 19.0mm)



**Ductile High Purity Cobalt Strip,  
Mechanical Properties, Annealed**

	<b>580 Alloy</b>	<b>591 Alloy</b>	<b>595 Alloy</b>
Cobalt (Co)	80%	91%	94%
Iron (Fe)	5%	5%	6%
Nickel (Ni)	15%	4%	----
Tensile Strength	81.2 ksi (560 MPa)	77.6 ksi (535 MPa)	79.8 ksi (550 MPa)
Yield Strength	17.2 ksi (120 MPa)	16.7 ksi (115 MPa)	16.7 ksi (115 MPa)
Elongation	50%	75%	75%
Hardness	145 VHN	125 VHN	125 VHN

**High Purity Nickel and Nickel Chrome Strip,  
Mechanical Properties, Annealed**

	<b>899 Alloy</b>	<b>8020 Alloy</b>	<b>7030 Alloy</b>
Nickel (Ni)	99.8%	80.0%	70.0%
Chrome (Cr)	<.05%	20.0%	30.0%
Tensile Strength	56.6 KSI (390 MPa)	85 KSI (586 MPa)	90 KSI (620 Mpa)
Yield Strength	19.6 KSI (135 MPa)	30 KSI (207 Mpa)	35 KSI (241 Mpa)
Elongation	40%	35%	45%
Hardness	100 VHN	150 VHN	145 VHN



Other Chemistries available (90Ni10Cr, 65Ni35Cr) as well as Silicon Additions.

**High Purity Nickel Iron Strip,  
Mechanical Properties, Annealed**

	<b>936 Alloy</b>	<b>942 Alloy</b>	<b>946 Alloy</b>	<b>948 Alloy</b>	<b>952 Alloy</b>
Nickel (Ni)	36%	42%	46%	48%	51%
Manganese (Mn)	0.20%	0.20%	0.20%	0.20%	0.20%
Iron (Fe)	Balance	Balance	Balance	Balance	Balance
Tensile Strength	65.0 ksi (450 MPa)	68.0 ksi (470 MPa)	70.0 ksi (480 MPa)	72.0 ksi (495 MPa)	74.0 ksi (510 MPa)
Yield Strength	37.7 ksi (260 MPa)	36.2 ksi (250 MPa)	36.0 ksi (245 MPa)	34.0 ksi (235 MPa)	32.0 ksi (220 MPa)
Elongation	30%	35%	35%	35%	35%
Hardness	145 VHN	145 VHN	145 VHN	145 VHN	145 VHN

All datasheet values are Nominal except where noted.



*Innovative & Advanced Metallurgical Technology*

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