PRUS METALS

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ELGILOY

DESCRIPTION

ELGILOY, also known as UNS R30003 or ASTM F1058, is a high-performance cobalt-based alloy renowned for its exceptional combination of strength, corrosion resistance, and hightemperature stability.

APPLICATIONS

ELGILOY is used in aerospace components where high strength and resistance to extreme temperatures are critical..

TYPICAL PHYSICAL PROPERTIES

Density	lb/in3	0.300
	g/cm3	8.30
Modulus of Elasticity	ksi	32.0 x 1000
	GPa	190
Modulus of Rigidity	ksi	11.2 x 1000
	GPa	77.2
Electrical Resistivity	µ ohm.in	39.2
	µ ohm.cm	99.6
Thermal Conductivity	Btu-in./ft.2hr o F	86.5
	W/m-K	12.5

TYPICAL MECHANICAL PROPERTIES

Tensile Strength	MPa	970
	psi	141000
Yield strength	MPa	480
	psi	69600
Elastic modulus	GPa	189.6
	ksi	27500
Hardness	Rockwell B	97

Chemical Composition (% by weight)

Elements	Min	Max
Со	39	41
Cr	19	21
Ni	14	16
Мо	6	8
Mn	1.5	2.5
Fe	Balan	се
Si	-	1.2
С	-	0.15
Be	-	0.1
Р	-	0.015
S	-	0.015

Specifications

- AMS 5833
- AMS 5834
- AMS 5875
- AMS 5876
- NACE MR0175 (ISO 15156-3)
- ISO 5832-7

PRUS METALS

Special Purpose Alloys & Metals From Stock

Controlled Expansion | Glass Sealing

Kovar ASTM 15 Alloy

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

Alloy 32/42/48/49

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

VIM VAR CORE IRON

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

SUPRA 510 (Ni50FeCr10)

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

ALUMINIUM HARD ALLOYS

7475 AA7475/7449 AA7449

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

7075 UNS A97075

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

7050 AMS 4050

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

7175 UNS A97075

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

 2014 AMS 4121
Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

2024 UNS A92024

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

2618 UNS A92618

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

2017 AMS 4037

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

2011 UNS A92011

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

TITANIUM ALLOYS

TITANIUM TI-6AL-4V GRADE 5

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

TITANIUM GRADE 2

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

TITANIUM 6-2-4-6

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

TITANIUM BT20

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

NICKEL BASED ALLOYS

WASPALLOY

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

INCONEL X750

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

INCONEL 945

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

INCONEL 945X

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

 NIMONIC C263
Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

NIMONIC 75

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

INCONEL 909 • Forms: Plate, sheets, Round Bar, Rod,

Strips, Coil

INCONEL 718

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

INCONEL 660

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

PH ALLOYS

17-7PH

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

15-5PH

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

17-4PH

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

HIGH TEMP ALLOYS

HAYNES 188

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

L605

• Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

MP35N

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

MP159

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

RENE41

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

HAYNES 230

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

ELGILOY

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

HAYNES 242

 Forms: Plate, sheets, Round Bar, Rod, Strips, Coil

JUST-IN-TIME DELIVERY: All of our standard stock items can be delivery as per commitment. All materials are certified

with shipment. For special orders and non-stock materials, contact our sales team for our competitive pricing and delivery.

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