PLUS METALS

2219

DESCRIPTION

2219, also known as UNS A92219, is a high-strength aluminum alloy renowned for its exceptional mechanical properties, especially at elevated temperatures. It adheres to several international standards, including AMS 4031/4112/4162, DIN 3.1355, EN AW-2219, and BS L163, ensuring reliability.

TYPICAL PHYSICAL PROPERTIES

Density	g/cm3	2.84
	lb/in3	0.103
Melting Point	°F	1010-1190
	°C	543 - 643
Specific Heat	J/g-°C	0.864
	BTU/lb-°F	0.207

Chemical Composition (% by weight)

Elements	Min	Max 0.20	
Fe	-	0.30	
Cu	5.80	6.80	
Mn	0.20	0.40	
Mg	-	0.02	
Zn	-	0.10	
Ti	0.02	0.10	
V	0.05	0.15	
Zn	0.10	0.25	
Al	Balance		

APPLICATIONS

2219 is widely used in aerospace applications, including airframe structures, fuel tanks, and other components that require high strength and lightweight materials.

TYPICAL MECHANICAL PROPERTIES

Tensile Strength	MPa	414
	psi	60000
Yield Strength	MPa	290
	psi	42000
Elongation		10%
Modulus of Elasticity	GPa	73.1
	ksi	10600
Hardness	Brinell	115
	Knoop	145
	Rockwell A	45.5
	Rockwell B	72
	Vickers	130
Poisson's Ratio		0.33
Fatigue Strength	МРа	103
	ksi	15000

Availability

- Sheets
- Plates
- Round Bar
- Rod
- Strips
- Coil



Special Purpose Alloys & Metals From Stock

Controlled Expansion | Glass Sealing

Kovar ASTM F 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

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

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

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

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

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.