PLUS METALS

7475

DESCRIPTION

7475, also known as UNS A97475 or AMS 4201, is a high-strength aluminum alloy recognized for its excellent mechanical properties, particularly in applications requiring high strength-to-weight ratios.

TYPICAL PHYSICAL PROPERTIES

Density	g/cc	2.81
	lb/in3	0.102
Melting Point	°F	890 – 1175
	°C	477 - 635.0

Chemical Composition (% by weight)

Elements	Min	Max
Si	-	0.10
Fe	-	0.12
Cu	1.20	1.90
Mn	-	0.06
Mg	1.90	2.60
Cr	0.18	0.25
Zn	5.20	6.20
Ti	-	0.06
Al	Balance	

APPLICATIONS

7475 is extensively used in aerospace applications, including airframes, wing structures, and critical load-bearing components due to its high strength and lightweight nature.

TYPICAL MECHANICAL PROPERTIES

Tensile Strength	MPa	531
	psi	77000
Yield Strength	MPa	462
	psi	67000
Elongation at Break		12%
Modulus of Elasticity	GPa	71.7
	ksi	10400
Hardness	Brinell	140
	Knoop	177
	Rockewell A	51.6
	Rockwell B	84
	Vickers	162
Poissons Ratio		0.33

Availablity

- 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.