# PPLUS METALS

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# 7068

# DESCRIPTION

7068, also known as UNS A97068 or AMS 4331, is one of the highest strength aluminum alloys available, recognized for its exceptional mechanical properties. It conforms to international standards such as DIN 3.4344 and EN AW-7068, ensuring quality and reliability.

#### **TYPICAL PHYSICAL PROPERTIES**

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Density	lbs./in.3	0.103
	Mg/m3	2.85
Melting Range	°F	890-1175
	°C	476-635
Specifi Heat	BTU/Ib °F	0.25
	J/kg - °K	1050
Electrical Conductivity	IACS	31%
Electrical Resistivity	micro ohm m	49.4

### Chemical Composition (% by weight)

Elements	Min	Max
Si	-	0.12
Fe	-	0.15
Cu	1.6	2.4
Mn	-	0.10.
Mg	2.2	3.0
Cr	-	0.05
Zn	7.3	8.3
Ті	-	0.10
Zr	0.05	0.15

### **APPLICATIONS**

7068 is widely used in aerospace applications, including airframe structures, wing components, and other critical parts due to its superior strength-to-weight ratio.

#### **TYPICAL MECHANICAL PROPERTIES**

Tensile Strength	ksi	93
	MPa	641
Yield Strength	ksi	85.7
	MPa	590
Elongation		8%

# **Specifications**

- AMS 4331
- DIN 3.4344
- EN AW-7068

# Availability

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

# PRUS METALS

# **Special Purpose Alloys & Metals From Stock**

#### Controlled Expansion | Glass Sealing

#### **Kovar ASTM FI 5 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.

#### www.plusmetals.in