# PLUS METALS

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# HAYNES 242

## DESCRIPTION

HAYNES 242, also known as UNS N10242 or ASTM 5873, is a high-performance nickel-cobaltchromium alloy designed for high-temperature applications. Recognized under ASTM B575 and W.NR.2.4665, it provides exceptional strength, oxidation resistance, and thermal stability.

#### **TYPICAL PHYSICAL PROPERTIES**

Density	lb/cubic in	0.327
	g/cubic cm	9.05
Melting Range	°F	2350-2510
	°C	1290-1375
Thermal Conductivity	BTU-in./ft² hr°F	75.7
	W/m-K	11.3
Specific Heat	Btu/Ib°F	0.092
	Ј/Кд-К	386

### Chemical Composition (% by weight)

Elements	Min	Max
С	-	0.03
Mn	-	0.80
Si	-	0.80
Cr	7.00	9.00
Fe	-	2.00
Al	-	0.50
В	-	0.006
Cu	-	0.50
Мо	24.00	26.00
Со	-	2.50
Ni	Balo	ance

# **APPLICATIONS**

HAYNES 242 is used in aerospace applications for components requiring high-temperature strength and oxidation resistance..

### **TYPICAL MECHANICAL PROPERTIES**

ksi	105
MPa	950
ksi	45
MPa	310
	40%
	MPa ksi

# Availablity

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

# PRUS METALS

# **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

#### 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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