INCONEL 702, ALLOY 702, UNS N07702

Introduction :

Inconel 702 is a nickel-chromium alloy with an addition of aluminum that makes this grade to produce high resistant to oxidation at temperatures up to 2400 °F. At high temperatures the alloy has good strength. Up to 1500 °F age hardening improves the strength. Alloy 720 is useful in furnace components and afterburner liners. Inconel 720 can be hardened through heat treatment and cold working.

Products Available in forms :

- INCONEL 702, ALLOY 702, UNS N07702 Plates
- INCONEL 702, ALLOY 702, UNS N07702 Pipes
- INCONEL 702, ALLOY 702, UNS N07702 Round Bar
- INCONEL 702, ALLOY 702, UNS N07702 Tube
- INCONEL 702, ALLOY 702, UNS N07702 Flanges
- INCONEL 702, ALLOY 702, UNS N07702 Wire
- INCONEL 702, ALLOY 702, UNS N07702 Fittings

Standard Available in forms :

- AMS 5550

Chemical Composition

	INCONEL 702	ALLOY 702	UNS N07702
Carbon	0.10max	0.10max	0.10max
Manganese	1.00max	1.00max	1.00max
Chromium	14.0-17.0	14.0-17.0	14.0-17.0
Silicon	0.70max	0.70max	0.70max
Sulfur	0.010max	0.010max	0.010max
Aluminum	2.75-3.75	2.75-3.75	2.75-3.75
Titanium	0.25-1.00	0.25-1.00	0.25-1.00
Cobalt	1.00max	1.00max	1.00max
Copper	0.50max	0.50max	0.50max
Iron	2.00max	2.00max	2.00max

Mechanical Properties

	INCONEL 702	ALLOY 702	UNS N07702
Ultimate Tensile strength, ksi	130	130	130
0.2% Offset Yield Strength, ksi	95	95	95
Elongation %	35	35	35
Hardness, RC	25	25	25

Applications

- Inconel 702 is mainly used in jet engine heat exchangers.

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