

Incoloy A-286

Incoloy A-286 is precipitation-hardenable austenitic nickel-iron-chromium alloy used for applications requiring high strength up to 700°C and lower stress application at higher temperatures. Oxidation resistance is high for continuous service up to 815°C. It is also used for low temperature applications requiring a ductile, non-magnetic high strength material at low temperatures down to -196°C.

Chemical Composition, %

element	Cr	Ni	Fe	Mo	V	Al	Ti	B	C	Mn	Si	P	S
min.	13.5	24.0	bal.	1.0	0.1		1.90	0.001					
max.	16.0	27.0		1.5	0.5	0.35	2.35	0.010	0.08	2.0	1.0	0.04	0.03

Chemical Composition according to ASTM. Some compositional limits of other specifications may vary slightly.

Designation and standards

National Standards	Material designation	Chemical composition	Forgings	Rod and bar	Plate and sheet	Strip	Wire	Seamless tube
ASTM ASME NACE	UNS S66286 Grade 660	MR 0175	A638 SA638 AMS5731 AMS5732 AMS5734 AMS5737 AMS5895	A638 SA638 A453 SA453 AMS5726 AMS5731 AMS5732 AMS5734 AMS5737 AMS5895	AMS 5525 AMS5858	AMS 5525 AMS5858	AMS5726 AMS5731 AMS5732 AMS5734 AMS5737 AMS5895	AMS5731 AMS5732 AMS5734 AMS5737 AMS5895
DIN	1.4980 X6NiCrMoVB25-15-2	DIN 10088-1 DIN 10302		DIN 10269				
GB/T	GH2132, GH132 06Cr15Ni25Ti2MoAlVB 0Cr15Ni25Ti2MoAlVB	GB/T 14992 GB/T 20878	GJB 3020 GJB 3782	GB/T 1221 GJB 2611 GJB 3165A	GB/T 14996 GJB 3317A		GJB 2612 GJB 3167	

Density 7.93g/cm³

Corrosion resistance

- good oxidation resistance up to 815°C
- aqueous corrosion resistance similar to 316L

Applications

Typical applications are:

- components of jet engine and gas turbine
- high temperature fasteners, springs
- non-magnetic cryogenic equipment

You could send email to sales@huishih.com for more information.

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