

Alloy25 High Temperature Resistant Alloy

**Trade name
Hastelloy25
Udimet L605
L605**

**UNS
R30605**

**DIN
W2.4964**

**EN
CoCr20W15Ni**

Chemical Composition %

Cr	Ni	Fe	Co	C	Mn	Si	P	S	W
19-21	9-11	3 max	Balance	0.05-0.15	1-2	0.04max	0.04max	0.03max	14-16

Recommended Welding Consumables

Wire AMS 5839 / AMS 5381
Rod AMS 5797/AMS 5796

Form	Smls Pipe/Tub	Weded Pipe	Welded Tube	Fittings	Plate	Bar	Forgings
Standard	ASTM B622	ASTM B 619	ASTM B 626	ASTM B 366	ASTM B333	ASTM B335	ASTM B564

Properties

Resistance to extended exposure to oxidising environments at high temperature
Good resistance to sulphidation environments

Applications

Gas turbines,
Bearings
Industrial applications

Physical Properties

Density 9.13 g/cm³ 0.330 lb/in³
Melting Point 1410°C 2570°F
Coefficient of Expansion 12.3 µm/m °C (20 – 100°C) 6.8 x 10⁻⁶ in/in °F (70 – 212°F)
Modulus of Rigidity 98 kN/mm² 14214 ksi
Modulus of Elasticity 225 kN/mm² 32634 ksi