

Introduction

Inconel 625 is used both for its high strength and outstanding aqueous corrosion resistance. The strength of Inconel 625 is primarily a solid solution effect from molybdenum and columbine. Inconel 625 has excellent weld ability. The matching filler metals are often used for dissimilar metal joining and to weld the aqueous corrosion alloy.

Equivalent: TAFA 71T, Sulzer, Metco 8625.

Standard: UNS N06625

Chemical & Physical Properties

Ni	Cr	Mo	Nb+Ta	Fe	Others	Hardness	Density	Melting Range
Bal.	20 - 23	8 - 10	3.15 - 4.15	≤5.0	≤ 1.0	90 - 95 B	8.4 g/cm ³	1290 - 1350 °C

Applications

- Oxidation and heat resistant coatings
- Corrosion resistance
- Dig esters
- Protective coatings against corrosive gases, protection against scaling of conventional low-alloy steels, build up coatings for dimensional restoration.

Deposit Characteristics

Typical Hardness	HRB 92
Bond Strength	7000 PSI
Deposit Rate	11 lbs/hr/100A
Deposit Efficiency	70%
Machine ability	Good

Standard Dimensions

Wire	Diameter (mm)	Tolerance (mm)
	1.6, 2.0, 3.17	+ 0 / - 0.05

Other sizes (diameter and wire weight) can be manufactured accordingly to the requirements of customers.

Packaging

Spool	15kgs(33 lbs) / spool (D300 spool)
Coil	20 - 400kgs / coil