

Introduction

Wisdom 316 is an 316 stainless steel wire that is specifically designed for arc spraying. It produces dense, well-bonded coatings with excellent machine ability and also good at wear, corrosion resistance. Wisdom 316 is widely used for machine element repair, dimensional restoration and wear resistance applications. It has relatively high shrink characteristics and should not be used for the thick of coatings over 0.075 inches.

Equivalent: PMET 730, TAFE 85T

Chemical & Physical Properties

Ni	Cr	Mn	Si	Fe	C	Mo
12	17	2	1	Bal.	0.08	2.5

Applications

- Part restoration
- Food industry rolls

Deposit Characteristics

Typical Hardness	HRB 90-100
Bond Strength	6750 PSI
Deposit Rate	10 lbs/hr/100A
Deposit Efficiency	75%
Wire Coverage	0.8 oz/ft ² / m
Surface Texture	Variable
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 / spool (D300 spool)
Coil	20 - 400kgs / coil