

WISDOM Thermal Spray Consumables

Nickel based alloys



NiMoAl (P) wire

DATA SHEET

September 2016

Introduction

NiMoAl(P) is a nickel aluminum molybdenum cored wire specifically designed for arc spraying. It produces dense, well-bonded coatings with excellent wear resistance and good corrosion resistance. It is widely used for machine element repair, dimensional restoration and wear resistance applications.

It equivalent to:Tafa 74MXC, Oerlikon Metco 8447, PMET888.

Surface Preparation

Surface should be clean, white metal, with no oxides (rust), dirt, grease, or oil on the surface to be coated. Note: It is best not to handle surfaces after cleaning. Recommended method of preparation is, to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe.

Application

- Part restoration
- Wear resistant coatings

Composition (standard value)%

Grade	Ni	Mo	Al
NiMoAl(P)	Bal	5	5.5

Typical Physical Properties

Typical	Bond Strength	Deposit Rate	Deposit	Machine
Hardness			Efficiency	Ability
HRB 75--85	7500 psi	9lbs/hr/100A	75%	GOOD

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Standard Sizes & Packing

Diameter	Dimension Tolerance	Packing Wire Weight	Wire
2.0mm	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool
1.6mm	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool

Other sizes can be produced by customers' requirement.