

Description:

FT-PO-NI19-PL is a NiCrBSi powder for use with plasma transfer arc welding (PTA) and laser cladding. It was developed and specially formulated to act as a corrosion resistant buffer layer under tungsten carbide MMC composite and exhibit a high compatibility with tungsten carbide based hardfacing powders.

Its low hardness and good ductility are making it a good candidate to repair previous coatings or rebuild worn out areas before coatings are applied.

The Ni-Cr-B-Si self-fluxing matrix alloy has a low melting point with very good flowability producing a clean and smooth surface.

Application

FT-PO-NI19-PL is designed to repair and hard surface a wide range of ferritic and austenitic steel. It has proven very effective to protect component in the oil and gas industry such as downhole motor components (fixed bend housing, adjusting rings, stators...) as well as industrial processing equipment, mixers, screws, pumps.

The coatings have a low hardness and is machinable.

Composition :

Ni	Cr	Si	B	C	Fe	Others
Base	6-8	2.5-3.7	0.5-1.3	<0.2	1.8-3	<0.5

Properties:

Hardness: < 20 HRC (outside dilution for PTA welding)

Melting point : (1650-1950 °F)

Density : 8-8.2 g/cm³

Apparent Density : 4-5.5 g/cm³

Grain size : 63-150 µm

Packaging : 10 lbs bottles