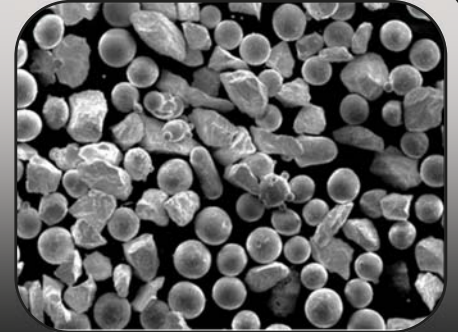


Product Data Sheet

TB 55F-40

Spray & Fuse (SF Lance) Powder Blend



Product Overview

C&M Technologies TB 55F-40 series of premium Flame Spray materials is a blended material that consists of 55 wt.% Fused Tungsten Carbide (W_2C/WC) and 45 wt.% of an Atomized Self-Fluxing Nickel-base Alloy. Fused Tungsten Carbide is distinguished by a very homogenous, fine acicular eutectic arrangement. The benefits of Fused Tungsten Carbide are increased impact resistance vs. Macro-Crystalline (WC).

SF Lance Overlays containing TB 55F-40 at optimized parameters, can be distinguished by a homogenous carbide distribution throughout the entire thickness. This uniform distribution improves impact performance under most conditions. Excellent wear & impact resistant overlays are achievable with TB 55F-40 for a range of customer applications.

Material Properties

Composition: CF 55%*
 Ni-Alloy 45%*

Grain Sizes: -150, +45 μ m*

Production Method: Blend

*Grain size and blend weight % can tailored to specific requirements

Typical Overlay Properties

Micro Hardness (HV 0.1) :
 CF ~1900
 Macro Hardness (HRc) :
 Ni-Alloy 40
 Porosity (%) : < 1
 Deposit Efficiency (%) : >90%²

Note¹: Deposit efficiency is influenced by process parameters

Typical Microstructure



TB 55F-40

Packaging Info

Description

TB 55F-40

Packaging Sizes

5kg/Bottle or 25kg/Pail

Please contact us with all questions and inquiries.
www.c-m-tech.com