

WISDOM Welding Consumables

Cobalt based material



Chiamger WDCo-12

DATA SHEET

November 2015

INTRODUCTION

WISDOM WD-Co12 that produces a deposit for high heat and corrosion resistance, with excellent wear properties. The Machineability, WD-Co12 makes it a good choice for knife cutting edges in the carpet, paper, and plastic industry. WD-Co12 deposits provide resistance to all types of wear, including galling. It can be applied to all weldable steels, including stainless steels.

Common Names: Stellite 12 Polystel 12

Standard: AWS 5.21-2001 ERCoCr-B

CHEMICAL COMPOSITION(%)

C	Si	Mn	Mo	Cr	W	Ni	Fe	Co
1.4	1.30	≤1.00	≤1.00	30.00	8.5	≤3.00.	≤3.00	Rest

CHARACTERISITIC

Abrasion Resistance	Good
Impact Resistance	Good
Corrosion Resistance	Good
Hardness	HRC 44-50
Deposit Layers	2 Max
Deposit Cross Checks	* No
Magnetic	No
Hot Wear Hardness	Good
Machineability	Carbide Tools

APPLICATIONS

Used for pre-protection of plastics, paper-making, chemical fiber, cutter and blade

Outlet valve sealing surface

High temperature and high-pressure valve

WISDOM manufactures cobalt based, nickel based, iron based alloys in powder, rod and electrode forms. These stellite equivalent material have outstanding metallurgical and physical properties making them suitable for solving industry problems such as Wear, Corrosion and Erosion. Our welding processes including: TIG, Oxy-acetylene, MMA, PTA, Laser, HVOF, Plasma Spray.

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