

CEWELD Powder

NiCrBSi WC2

TYPE	Nickel based metal powder with high tungsten carbide content														
APPLICATIONS	<p>CEWELD® Powder NiCrBSi WC2 is a spray powder for overlay spray and fuse and Laser or PTA welding on wear parts that need to outlast new parts where high temperatures combined with corrosion and wear resistance is required.</p> <p>Main applications in the field:</p> <ul style="list-style-type: none"> Stabilizers and hard band tools Decanter screws Debarking knives Agitator blades Bucket teeth and covers Universal fan blades and slag mills Agricultural scraper bars 														
PROPERTIES	<p>CEWELD® Powder NiCrBSi is a self fluxing Tungsten alloy with excellent corrosion and wear resistance suitable for working temperatures Up to 650°C. The coatings are dense and practically oxide free. The low friction properties makes the alloy excellently suitable for metal to metal wear. Machinable by grinding.</p> <p>Hardness:</p> <p>Matrix: 40-60 HRC</p> <p>Carbid: 2000-3000 HV01</p> <p>Standard particle size: 150/52 µm</p> <p><i>also possible: 106/20 µm, 106/38 µm, 106/45 µm, 125/38 µm, 125/45 µm, 150/45 µm, 150/53 µm, 150/63 µm, 180/53 µm, 180/63 µm, 210/63 µm, 250/45 µm, 63/20 µm, 75/20 µm</i></p>														
CLASSIFICATION	EN ISO 14232-1 WC-NiCr 60/30/3														
SUITABLE FOR	<p>For coating the following base materials:</p> <p>Structural steel, stainless steel, nickel alloys, heat-treatable steels, if preheated to 300 °C (570 °F) to prevent extensive cracking in the coating.</p>														
APPROVALS	No Approvals Found														
WELDING POSITIONS															
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>C</th> <th>Si</th> <th>Cr</th> <th>Ni</th> <th>Fe</th> <th>B</th> <th>WC</th> </tr> </thead> <tbody> <tr> <td>2.5</td> <td>1.8</td> <td>3</td> <td>Rem.</td> <td>0.6</td> <td>1.2</td> <td>60</td> </tr> </tbody> </table>	C	Si	Cr	Ni	Fe	B	WC	2.5	1.8	3	Rem.	0.6	1.2	60
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ALL WELD MECHANICAL PROPERTIES	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Heat Treatment</th> <th>R_{p0,2} MPa</th> <th>R_m MPa</th> <th>A₅ (%)</th> <th>Hardness Rockwell C</th> </tr> </thead> <tbody> <tr> <td>As Welded /1h</td> <td></td> <td></td> <td></td> <td>Avg. 50</td> </tr> </tbody> </table>	Heat Treatment	R _{p0,2} MPa	R _m MPa	A ₅ (%)	Hardness Rockwell C	As Welded /1h				Avg. 50				
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REDRYING TEMPERATURE	Not required														
GAS ACCORDING EN 14175	None														



CEWELD Powder NiCrBSi WC2

POWDER NICRBSI WC2 (-
125/25 MM)MM

Type	KG/unit	EANCode
Can	3,5	8720663410542