




CEWELD SP 80/20 NiCr

TYPE	Metal spray wires												
APPLICATIONS	SP 80/20 NiCr is widely used as a bond coat for subsequent thermal spray layers and as a one step build up material for dimensional restoration. Excellently suitable as a buffer layer before finishing with ceramic layers.												
PROPERTIES	CEWELD SP 80/20 NiCr is a nickel-chromium electrical-resistance alloy for use at operating temperatures up to (2100 °F) 1150 °C. It contains rare-earth additions for increased oxidation resistance, especially under conditions of frequent switching or wide temperature fluctuations. The alloy has a low temperature coefficient of resistance, making it suitable for control resistors. Used for heating elements in domestic appliances and industrial equipment.												
CLASSIFICATION	EN ISO 14919: 6.4												
SUITABLE FOR	NiCr metal spray wire for heat resistant coatings with excellent bonding strength.												
APPROVALS													
WELDING POSITIONS													
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 16.6%;">Si</th> <th style="width: 16.6%;">Mn</th> <th style="width: 16.6%;">Cr</th> <th style="width: 16.6%;">Fe</th> <th style="width: 16.6%;">Cu</th> <th style="width: 16.6%;">Ni</th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>1</td> <td>20</td> <td>0.1</td> <td>0.1</td> <td>Rem.</td> </tr> </tbody> </table>	Si	Mn	Cr	Fe	Cu	Ni	0.2	1	20	0.1	0.1	Rem.
Si	Mn	Cr	Fe	Cu	Ni								
0.2	1	20	0.1	0.1	Rem.								
MECHANICAL PROPERTIES	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 33%;">Heat Treatment</th> <th style="width: 16.5%;">R_{p0,2} (MPa)</th> <th style="width: 16.5%;">R_m (MPa)</th> <th style="width: 16.5%;">A₅ (%)</th> <th style="width: 17.5%;">Hardness</th> </tr> </thead> <tbody> <tr> <td>As Welded</td> <td></td> <td></td> <td></td> <td>90 HRc</td> </tr> </tbody> </table>	Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness	As Welded				90 HRc		
Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness									
As Welded				90 HRc									
REDRYING	Not required												
GAS ACC. EN ISO 14175	None												



CEWELD SP 80/20 NiCr

SP 80/20 NICR 1,6MM

Packaging	KG/unit	EanCode
BS-300	15	8720663409959
BS-300	15	8720663409966