




# CEWELD SP 80/20 NiAl

TYPE	Composite spray wire for bond coatings												
APPLICATIONS	SP 80/20 NiAl is widely used as a bond coat for subsequent thermal spray layers and as a one step build up material for dimensional restoration of aircraft engines.												
PROPERTIES	SP 80/20 NiAl is a cored wire specifically designed for both, arc spraying and flame spraying. It is self bonding to most materials and requires minimal surface preparation. Bond strengths in excess of 9000 psi can be achieved on grit blasted surfaces. SP 80/20 NiAl exhibits good resistance to high temperature oxidation and abrasion, and excellent resistance to impact and bending. SP 80/20 NiAl can be machined and ground to a finish of 5 micro inches.												
CLASSIFICATION	EN ISO 14919: 6.6												
SUITABLE FOR	Build up material for dimensional restoration of aircraft engines.												
APPROVALS	No Approvals Found												
WELDING POSITIONS													
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20%;">Si</td> <td style="width: 20%;">Mn</td> <td style="width: 20%;">Fe</td> <td style="width: 20%;">Al</td> <td style="width: 20%;">Ni</td> </tr> <tr> <td>0.4</td> <td>0.2</td> <td>0.1</td> <td>20</td> <td>Rem.</td> </tr> </table>	Si	Mn	Fe	Al	Ni	0.4	0.2	0.1	20	Rem.		
Si	Mn	Fe	Al	Ni									
0.4	0.2	0.1	20	Rem.									
ALL WELD MECHANICAL PROPERTIES	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">Heat Treatment</td> <td style="width: 10%;">R<sub>p0,2</sub> MPa</td> <td style="width: 10%;">R<sub>m</sub> MPa</td> <td style="width: 10%;">A<sub>5</sub> (%)</td> <td style="width: 10%;"></td> <td style="width: 35%;">Hardness Brinell Hardness</td> </tr> <tr> <td>As Welded /</td> <td></td> <td></td> <td></td> <td></td> <td>Avg. 75</td> </tr> </table>	Heat Treatment	R <sub>p0,2</sub> MPa	R <sub>m</sub> MPa	A <sub>5</sub> (%)		Hardness Brinell Hardness	As Welded /					Avg. 75
Heat Treatment	R <sub>p0,2</sub> MPa	R <sub>m</sub> MPa	A <sub>5</sub> (%)		Hardness Brinell Hardness								
As Welded /					Avg. 75								
REDRYING TEMPERATURE	Not required												
GAS ACCORDING EN 14175	None												



# CEWELD SP 80/20 NiAl

SP 80/20 NIAL 3,15MM

Type	KG/unit	EANCode
K-415	5	8720663410030