# **CEWELD**<sup>®</sup>

## SP (A) 80/20 NiAl

CATEGORY	Metal spray	wires		
ТҮРЕ	Composite s	spray wire for bond coatings equivalent to Metcoloy 405		
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	to most mat achieved on	Al is a cored wire specifically designed for both, arc spraying and flame spraying. It is selfbonding terials and requires minimal surface preparation. Bond strengths in excess of 9000 psi can be grit blasted surfaces. SP 80/20 NiAl exhibits good resistance to high temperature oxidation and a excellent resistance to impact and bending. SP 80/20 NiAl can be machined and ground to a hicro inches.		
CLASSIFICATION	AWS	Ni80-Al20 deposit		
APPROVALS	CE approved	d		
WELDING POSITIONS:	$\times$ )			

#### PURE WIRE ANALISYS

Ni	Al	Si	Cr	Cu	V
80	20				

### MECHANICAL PROPERTIES

Heat	R <sub>P0,2</sub>	Rm	A5	Imj	pact Energy (J) IS	O-V	Hardness
Treatment	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	(%)	-20°C	-40°C	-60°C	Rockwel B
							60-75

#### SPRAY PARAMETERS / PACKING

		Spray pa	arameters		Packi	ng
D (mm)	Voltage (V)	Current (A)	distance (cm)	air pressure (bar)	spool type	kg spool
1,6	29-32	100-200	8-15	3.5-4.2	K-300	15
3,17	29-34	160-300	10-18	3.5-4.2	H-420	25

REDRYING TEMPERATURE	not required
PREPARATION	Recommended method of preparation is, to grit blast with 24 mesh aluminum oxide, rough grind, or rough memachine in a lathe.