CEWELD®

SP 80/20 NiAl

CATEGORY	Metal spray wires			
TYPE	•	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 ma achieved or	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 a grit blasted surfaces. SP 80/20 NiAl exhibits good resistance to high temperature oxidation and excellent resistance to impact and bending. SP 80/20 NiAl can be machined and ground to a nicro inches.		
CLASSIFICATION	AWS	Ni80-Al20 deposit		
APPROVALS	CE approve	d		
WELDING POSITIONS:	\mathbb{X}			

PURE WIRE ANALISYS

Ni	Al
80	20

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	lm	pact Energy (J) IS	60-V	Hardness
Treatment	(N/mm ²)	(N/mm ²)	(%)	-20°C	-40°C	-60°C	Rockwel B
							60-75

SPRAY PARAMETERS / PACKING

Spray parameters					Packing	
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
3,15	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 machine in a lathe.