

CORODUR[®] SP 118 Y

Flux cored wires for Thermal Spray Application

EN ISO 14919 – 5 – 1,6 - 4

MATERIAL REVIEW:

Ferritic iron-chromium-aluminium alloy with addition of Yttrium (FeCrAlY). Resistant to high-temperature oxidation up to 500°C, corrosion protection in Sulphur and Carbon atmospheres. Good machinability. Made exclusively for arc spraying, but may also sprayed by wire- and high-velocity-wire-flame-spraying.

APPLICATION:

Dense bond coat, eg. used on boiler tubes.

COMPOSITION (Weight.-%):

Fe	Cr	Al	Y
Bal.	22	5	1

PHYSICAL PROPERTIES OF THE COATING:

Hardness: 170-270 HV_{0,3}
 Melting point: ~ 1500 °C
 Density: 7,15 g/dm³

SPRAY PROCEDURE (Arc):

	Atomizing Air Pressure	Nozzle Cap	Arc Load Volt	Ampere	Stand off mm	Coating thickness / pass mm/pass	Deposit Efficiency %
Standard 1,6 mm	3,5 bar		30-32	100-200	75-125	0,125	70-80%

SALES UNIT:

Coil	"BS 300" = 15 kg	"B 450" = 25 kg	Other dimensions upon request
Wire Diameter	1,6 mm (1/16")	2,4 mm	