# **ROBODUR K 600-G**

## EN 14700 T Fe2

CLASSIFICATION

### DESCRIPTION

· Seamless high fill copper coated tubular wire for semi-automatic gas shielded hardfacing

• Unique welder appeal

• Deposition rate increased by up to 20% when compared to solid wire

• Martensitic weld metal contains finely dispersed hard carbides ensuring an optimal balance between abrasion, friction and impact resistance

- Wire does not pick up moisture, the wire feeding properties are excellent
- Designed for welding in horizontal, horizontal-vertical and vertical-up positions
- Abrasion resistance is maintained at service temperatures up to 450°C

## APPLICATIONS

Robodur K 600-G is used for hardsurfacing components that must combine resistance both to abrasion and to moderate impact.

## Examples

Bucket teeth, bucket lips, bulldozer blades, crusher jaws, scraper blades, chutes, pump housings, conveyor screws, slide plates, gear teeth, crusher hammers, drilling bits, ploughshares, reamers etc.

TYPICAL ALL-WELD METAL ANALYSIS									
С	Mn	Si	Cr	Мо	Fe				
0.50	1.20	0.70	6.00	0.70	Rest				

Structure: martensite

## **TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES**

Peak hardness in the range 50HRc – 62HRc may be achieved in three layers. Direct polarity reduces dilution and favours higher hardness.

Preheat will be determined by the application and whether micro cracking in the deposit is acceptable. According to the base material preheating in the range 150°C – 300°C may be necessary.

When welding on 13% Mn steels or air hardenable steels, a tough and malleable buffer layer should be deposited using Tetra S 312-G.

CONDITIONS OF USE

Current t	уре	Shielding gas						
DC (+) EN		EN ISO 14175	M12 / M1	M12 / M13 / M20 / M21				
OPERATING CONDITIONS								
Diameter [mm]	Amperage [A]	Voltage [V]	Stick-out [mm]	Gas flow [I/min]				
1.2	100 - 300	24 - 32	12 - 25	10 - 20				
1.6	150 - 300	24 - 32	12 - 25	10 - 20				
2.0	200 - 400	24 - 32	12 - 30	10 - 20				
2.4	250 - 450	24 - 32	12 - 30	10 - 20				
Recovery: > 95 %								
		WELDING POSI						
Robodur K600-G. up t	to Ø 1.6 mm is suitable for d			sfer mode and welding parameters				
		STANDARD DIAMET		olor mode and wording parametere				
1.2, 1.6, 2.0, 2.4								
Other diameters: pleas	se consult us							
		PACKAGIN	G					
Diameter			2.4 mm	2.4 mm				
Standard packaging [EN ISO 544]		Spool : BS	300 Coil : B 450	Drum				
Weight		15 kg	25 kg	Up to 330 kg				