Technical data sheet

Cored Welding Wire

HARDFACE HCB05-O



011121MBA

CLASSIFICATION

EN 14700: T Fe15

DESCRIPTION

- Tubular wire for self-shielded metal arc hardfacing
- High chromium cast iron for hardfacing components subject to extremely severe abrasive wear and moderate impact
- . The deposit contains a high proportion of hard primary chromium carbides in a tough austenitic matrix

APPLICATIONS

HARDFACE HCB05-O is used for hardfacing components undergoing wear by earth, sand and abrasives.

Examples

Gyratory crusher cones and mantles, catalyst pipes and valves, slurry pipes and valve bodies, dredge pump bodies, sand dredge parts, extruder screws, "barmac" crushers, mining and earthmoving equipment, blast furnace bells, brick muller tyres, sugar mill crusher hammers, drag line components, coal pulverisor rolls, coke hammers, cone knives and shredders.

Relief checking is normal and best limited to two layers unless impact loading is small. Can be multi-layered in specific applications.

TYPICAL ALL-WELD METAL ANALYSIS								
С	Mn	Si	Cr	В				
5	0.4	1.3	28	0.4				

Structure: primary carbides and eutectic carbides of the M₇C₃ type in an austenitic matrix

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Hardness: 3-layer deposit on mild steel: 65 HRc

CONDITIONS OF USE					
Current type	Protection				
DC+	Self-shielded				

Diameter [mm]			Voltage [V]		Stick-out [mm]	
	Range	Optimum	Range	Optimum	Range	Optimum
1.2	100 - 250	170	21 - 28	26	20 - 30	20
1.6	160 - 320	250	24 - 30	28	20 - 30	25
2.4	250 - 450	350	26 - 32	30	25 - 40	30
2.8	250 - 450	400	26 - 32	30	25 - 40	30
3.2	250 - 550	480	26 - 32	31	25 - 40	30

Recovery: 90 %

WELDING POSITIONS

Flat, half up, half down

PACKAGING							
Diameter	≤ 2.4 mm	≥ 2.4	mm				
Standard packaging	EN ISO 544: BS 300 spool	B 450 coil	Drum				
Weight	15 kg	25 kg	Up to 330 kg				

Other packaging and other diameters: please consult us