HARDFACE 40-E

CLASSIFICATION

DIN 8555 : E3-UM-40-PT

EN 14700 : E Fe3

DESCRIPTION AND APPLICATIONS

- Basic electrode giving a martensitic weld deposit
- Very high resistance to metal to metal wear up to 550°C, to pressure and to impacts
- Particularly well adapted to hardfacing tool steels type X38CrMo5.1
- Applications : hot shearing, hot press tooling, extrusion pistons, dies
- Complements Welding Alloys cored wire HARDFACE R40-G

Base materials: High strength carbon steels and hot working steels

Material no.	D	DIN classification		erial no.	DIN classification	
1.2311		40CrMnMo 7		2367	X38CrMoV 5 3	
1.2343		X38CrMoV 5 1		2606	X37CrMoW 5 1	
1.2344		X40CrMoV 5 1		2713	55NiCrMoV 6	
1.2365		X32CrMoV 3 3		2714	56NiCrMoV 7	
TYPICAL ALL-WELD METAL ANALYSIS						
С	Si	Mn	Cr	Мо	Fe	
0.15	0.50	0.70	6.50	3.50	Balance	
TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES						

Hardness - as welded

~ 40 HRc

OPERATING CONDITIONS					
Electrode ØxL [mm]	2.5x350	3.2x350	4.0x450		

Electrode ØxL [mm]	2.5x350	3.2x350	4.0x450
Current [A]	60-90	80-110	100-130

Preheat the workpiece to 250-400°C depending on thickness and alloy. Hold the electrode vertically with a short arc. Keep temperature during welding and let the workpiece cool slowly.

Subsequent machining is possible by grinding or with tungsten carbide tools.

= + ~ 70 V

	WELDING POSITIONS				
1G/PA, 2F/PB, 2G/PC, 3G/PF, 4G/PE					
PACKAGING					
Electrode ØxL [mm]	2.5x350	3.2x350	4.0x450		
Weight/box [kg]	4	5	6.5		
Piece/box	~ 214	~ 139	~ 92		