

Selectarc Co21S

Cobalt base Hardfacing Electrode "Grade 21" type

Classification

AWS A5.13 : ECoCr-E DIN 8555 : E20-UM-350-CKTZ EN 14700 : E Co1

Description & Applications

Hardfacing electrode with a rutile-basic coating. Cobalt base deposit of « stellite grade 21 » type (Co-Cr-Mo-Ni). Deposit characterised by a good metal-metal wear and oxidation resistance up to 1000°C, even in presence of sulphurous atmosphere. Good behaviour to important thermal and mechanical shocks, excellent resistance to cracks, highly resistant to cavitation and erosion, deposit non-magnetic.

General applications: Surfacing of motor valves, gas turbine blades, extrusion nozzles, forging dies, forging tools, mixers, valves for gas/water/vapour/acids.

* Note : "Stellite" is a trade mark of Deloro Stellite (Haynes International).

Typical Weld Metal Composition (%)									
С	Si	Mn	Cr	Мо	Ni	Fe	Со		
0.3	0.8	0.5	28.0	5.0	2.5	2.0	Rem.		

All Weld Metal Mechanical Properties						
Hardness (as welded) +20°C	Hardness (as welded) +600°C					
32-38 HRC	250-300 HB					

Welding Current & Instructions								
Electrode	ØxL (mm)	2,5x350	3,2x350	4,0x350				
Current	(A)	75	100	140				

Redrying 1h at 250°C, if necessary. Preheat massive pieces 250-400°C.Keep this temperature during welding, cool down slowly to reduce the risk of cracks while cooling. Weld eventual cushion layers with Selectarc B 90.





1G/PA 2F/PB

3 2G/PC

ind.12

