ΜΕΤΔLWELD

COBASTEL 1

Electrodes MMA [SMAW]

Hardfacing and repairing

CLASSIFICATION:		APPROVALS:	APPLICATIO	N:
EN ISO 14700-A : E Co	o3 cptz		Hardfacing	and repairing
DIN 8555 : E 20-UM-5	5-CPTZ			
AWS A-5.21 : E CoCr-0	C			
 Rutile-basic electrode with alloyed core wire, for welding with alternating current. A cobalt-based overlay with an austenitic-ledeburic structure with embedded tungsten carbides (CrW). The hardest of the standard cobalt-based alloys. The overlay is resistant to corrosion, impact, abrasion, as well as thermal shocks and high mechanical pressure. The overlay is workable only by grinding. Operating temperature: from room temperature to 1000°C. 				
Recommendations:				
 The operating temperature should be maintained between 400° and 600°C, depending on the base material and type of construction. Slow cooling, and if required furnace cooling, is recommended for low alloy and austenitic steels. 				
Application				
Hardfacing of steam and chemical valves, as well as tools working with hot steel, such as: tongs' caps, scissor knives, pumps for high-temperature liquids, briquette squeezing screws.				
Typical chemical composition %				
C Si	Mn C	r Fe Co	W Inne	
C Si 2,20 1,20	Mn C i 1,00 30	r Fe Co 0,00 3,00 rest	W Inne 12,50 <3,00	
• • • •	1,00 30			
2,20 1,20	1,00 30		12,50 <3,00	
2,20 1,20 Typical mechanical pr	1,00 30	0,00 3,00 rest	12,50 <3,00	
2,20 1,20 Typical mechanical pr Hardness	1,00 30	0,00 3,00 rest 55 HRC (RT) / 44 HRC (60	12,50 <3,00	
2,20 1,20 Typical mechanical pr Hardness Coating type	1,00 30	0,00 3,00 rest 55 HRC (RT) / 44 HRC (60 rutile-basic	12,50 <3,00	
2,20 1,20 Typical mechanical pr Hardness Coating type	1,00 30	0,00 3,00 rest 55 HRC (RT) / 44 HRC (60 rutile-basic	12,50 <3,00 0°C) / 34 HRC (800°C)	
2,20 1,20 Typical mechanical pr Hardness Coating type Welding current	1,00 30	0,00 3,00 rest 55 HRC (RT) / 44 HRC (60 rutile-basic	12,50 <3,00 0°C) / 34 HRC (800°C)	
2,20 1,20 Typical mechanical pr Hardness Coating type Welding current Welding positions	1,00 30	55 HRC (RT) / 44 HRC (60 rutile-basic	12,50 <3,00 0°C) / 34 HRC (800°C) U₀<50 V	1
2,20 1,20 Typical mechanical pr Hardness Coating type Welding current Welding positions Redrying	1,00 30	0,00 3,00 rest 55 HRC (RT) / 44 HRC (60 rutile-basic	12,50 <3,00 0°C) / 34 HRC (800°C) U₀<50 V	1
2,20 1,20 Typical mechanical pr Hardness Coating type Welding current Welding positions Redrying Additional descript	1,00 30	0,00 3,00 rest 55 HRC (RT) / 44 HRC (60 rutile-basic Image: the transformed state of the transformed state o	12,50 <3,00 0°C) / 34 HRC (800°C) U₀ < 50 V 0 - 1290°C Density: 8, Weight of packet	/ 7 g3/cm3
2,20 1,20 Typical mechanical pr Hardness Coating type Welding current Welding positions Redrying Additional descript	ion and packing	55 HRC (RT) / 44 HRC (60 rutile-basic	12,50 <3,00 0°C) / 34 HRC (800°C) U₀<50 V 0 - 1290°C Density: 8,	/ 7 g3/cm3

140-180

5,0

20,0

METALWELD-FIPROM POLSKA spółka z o.o.

350 /

5,0

ul. Mikołajczyka 57, 41-200 Sosnowiec +48 (32) 297 75 50 - 51 +48 (32) 297 75 88 export@metalweld.pl