

Elgaloy Cast-Ni REPAIR & MAINTENANCE

2007-10-19 20

Description:	Classi	ificatio	on:			
Elgaloy Cast-Ni is a pure nickel electrode for general purpose welding of all types	EN-ISO 1071 E Ni-Cl 3					
of cast iron. It is suitable for the joining and repair of grey and malleable cast						
irons and dissimilar joints between these and steel, monel and stainless steels.	_	AWS A5.15-90 E Ni-Cl				
The electrode will tolerate dirty and contaminated surfaces. No preheat is	Appro	vals:				
required for small castings and thin sections up to 15 mm. Above this, preheat up						
to about 150°C is recommended.						
Joint surfaces should be prepared by gouging with Elgaloy Cut or grinding. Select smallest diameter electrode practical, deposit short thin stepped layers	Produ					
and lightly peen the weld beads during welding to reduce shrinkage strains. Avoid	Diam	.mm	Product code	Current A	Voltage V	Delivery
arc striking on the base metal. On completion allow the work piece to cool slowly.						form
The deposit is soft and fully machinable.	2,	5	70512510	50-90		
Applications:	3,2	2	70513210	80-120		
Grey and malleable cast irons, machine bases, engine blocks and gear housings.						
Welding positions:						
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				C		
Shielding gas:						
				\mathbf{A}		
Continue to more						
Coating type:						
Special						
Hardness as welded:			7//			
150-170 HV						
Welding current:						
DC + / (-), AC						
Chemical composition, wt.%						
C Ni Fe						
Min 0,3 92 0,5						
Typical 0,5 94 2,5						
Max 2,0 96 5,0						
Mechanical properties						
Specified Typical						
Tensile Strength, Rm: 240-290 N/mm ²						
Elongation, A5 8%						
	1					
Kite In						
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