


<h1>CIN-3</h1>	A SPECIAL ELECTRODE THAT DEPOSITS A WELD METAL WHOSE COMPOSITION MATCHES THAT OF STANDARD CAST IRONS				DATA SHEET NO. 147
SPECIFICATION	-				
CLASSIFICATION					
PRODUCT DESCRIPTION	<p>A chemically basic flux coated electrode that contains a high proportion of amorphous graphite and ferro alloys for deoxidation and grain refinement.</p> <p>The flux is extruded into a mild steel core wire using a blend of silicates that ensures coating strength and stability.</p>				
WELDING FEATURES OF THE ELECTRODE	<p>The electrode welds with a soft, stable, low penetrating arc on both AC and DC.</p> <p>The cone at the end of the electrode is rather shallow so it is necessary to maintain a constant arc.</p> <p>The weld seams are slightly convex but smooth and the electrode shows great tolerance to porosity on contaminated surfaces.</p>				
APPLICATIONS AND MATERIALS TO BE WELDED	<p>The weld deposits are non-machinable but of matching colour to that of standard cast irons and is thus used for the rectification of initial cast irons and repair build-ups on cast irons that have become worn or damaged in use.</p> <p>Because of the high hardenability of both the weld metal and base materials, a pre-heat of minimum 200 °C is essential as is slow cooling.</p>				
WELD METAL ANALYSIS COMPOSITION % BY Wt.	C	Mn	Si	S	Fe
Min.	-	-	-	-	-
Max.	3.5	1.0	1.5	0.05	-
Typical	1.7	0.5	0.3	0.03	Bal.
WELD METAL PROPERTIES (ALL WELD METAL)	<u>PROPERTY</u>	<u>UNITS</u>	<u>MINIMUM</u>	<u>TYPICAL</u>	<u>OTHERS</u>
	Tensile strength	N/mm ²	-	670	HV 320 (NO PRE-HEAT)
	0.2% Proof stress	N/mm ²	-	64	
	Elongation on 4d	%	-	3	
	Reduction of Area (RA)	%	-	-	
WELDING AMPERE AC or DC	∅ x Length (mm)	2.6 x 350	3.2 x 350	4.0 x 400	
	Min.	60	90	130	
	Max.	100	150	190	
OTHER DATA	Electrodes that have become damp should be re-dried at 150°C for 30 minutes				
RELATED PRODUCTS	Please contact our Technical Department for detail.				