

## CARBO NiCu

International standards		572			PC 11						
international Stanuarus		Δ515 Δ515		E NiCu-F	- <u>DG 11</u> 2						
	AVU	A J.13			J						
Approvals											
Typical applications and characteristics	Basic-graphite special coated electrode with a NiCu-alloyed core wire. This electrode is particularly suitable for safe cold welding of grey cast iron, cast steel and malleable cast iron. The colour of the weld deposit is very similar to cast iron. Therefore, The electrode is primarily suitable for repairing casting or machining de- fects on new castings.										
Operating temperature	same as base material										
Welding instructions/ Base materials	Thoroughly clean the surface of the work-piece make sure it is exempt from grease (previous grinding). When welding cast iron, heat input should as low as possible (low amperage). The bead must not be wider than twice the core wire diameter and not be longer than ten times the core wire diameter. To limit internal stress of the base metal, peening of the beads is recommended after each pass. In some cases preheating to 300°C and slow cooling is recommended. When welding on DC - the weld metal flows very neatly and produces a flat bead while beads welded on the positive pole are cambered, due to the high amount of weld metal deposed as a consequence of low heat input. The aspect of the weld produced with alternate current and the welding characteristics of the electrode are in between the results ob- tained an direct current										
Mechanical properties of all-weld metal	Tensile strength Yield strength Elongat		ongatio	on	Hardness						
	400		∎ <b>`</b> p0	200		A F					
(typical values)	400		300			15		adi. 165			
Weld metal analysis	С	Si	Mn	Ni	Cu	Fe					
(typical, wt. %)	0,5	0,6	1,8	64	30	3,0					
Current	= + / -	, ~ / 50 V		<u> </u>							
Welding positions	ositions PA, PB, PC, PD, PE, PF										
Rebaking	1 h, 1	20 °C + / - 1	) °C (	if require	d )						
Dia./Length Amperage	(A) P	cs./packet	Pcs./	carton	kg/10	00	kg/ p	acket	kg/ carton		
		201	4	162	47	2	- J: P	0	20.0		

Dia./Length	Amperage (A)	Pcs./packet	Pcs./carton	kg/1000	kg/ packet	kg/ carton
2,5 x 300	60 - 80	291	1163	17,2	5,0	20,0
3,2 x 350	70 - 100	147	590	33,9	5,0	20,0
4,0 x 350	95 - 130	97	390	51,3	5,0	20,0
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Statements on composition and application are just for the applier's information. Statements on mechanical properties always refer to the all-weld-metal according to valid standards. Carbo-Weld may change the characteristics of its products without notice. We recommend the applier to check our products for their special application autonomously.