

CARBO F-4351 N

Standards	Material No. ≈ 1.4351							
	EN 1600		≈ E 13 4					
	AWS A 5.4		≈ E410NiMo					
	DIN 8555	≈ MF5-GF-400-						
Characteristics and typical applications	CARBO F-4351 N is a tubular wire for plating and joining equal and similar ferritic Cr-steels and cast steels. The alloy is highly suitable for welding on tough, corrosion resistant continuous-cast rolls and also wear parts from the steel industry and large machinery. Apart from corrosion resistance, it also has a further capability in protecting against cavitation, erosion and also capable of resisting pitting.							
Typical applications	Bridge store; depositions to thick areas of water, steam and gas fittings for operating temperatures to 450° C; rope pouring roles; on alloying buffer layers							
Base materials	1.4008 GX8CrNI13 1.4313 X4CrNi13-4 1.4313 GX5CrNi13-4							
Recommendations for fabrication	Preheating a not necessar	nd heat t Ƴ	reatme	ents as	neces	sary for	ferritic Cr-	steels are
Mechanical properties of all-wold metal	Tensile strength P N/mm ²	Yiel stren	ld gth /mm²	Elongation A ₅ %		Impact strength ISO – V J + 20°C		Hardness HB
(typical values)	1100	700 700))	15		•	> 40	300-600
Wold motal analysis	C Si	Mn	Cr	Ni	Mo	N		
(typical, wt. %)	0,06 0,7	0,6	13	4,5	0,5	0,2		
Gas types EN 439	I1, M13: Arg	on and s	99% A	rgon wi	ith 1%	Oxyger	ı	
Current	= +							
Current intensity	DIA (mm) DIA (inc		h) Volt A			mps Delivering form		
	1,2	3/64	1	9 - 22	120) - 220	0	G
	1,6	1/16 5/64	2	20 - 26	160	J - 260	0	
	2,0	5/04 3/32	2	2 - 21	220	J - 280	0	G
	2,4	7/64	2	.4 - 20 25 - 29	200) - <u>400</u>	0	S
	3,2	1/8	2	26 - 30	320) - 460	U	S
Delivering form	O = Flux cor G = Flux cor S = Flux cor	ed wire s ed wire f ed wire f	self sh for shi for sub	ielding elded a omerge) arc we ed arc y	lding welding	g	
Coils, weight	B/BS 300 = 15	5 kg	B 450	= 30 k	g p	ay off p	oack = 150	/ 300 kg

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.