

## **CARBOTRODE 903**

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International Standards					~ 1.4337								
		EN 16				EZ 29							
	AWS					312-17 mod.							
		DIN 8	555			E 9-UN	/-200	-CT2	<u>Z</u>				
	<ul> <li>CARBOTRODE 903 is an AC weldable electrode with an alloyed consultable for joining difficult-to-weld steels.</li> <li>Austenitic-ferritic stainless steel welding deposit (high ferrite content). The weld metal remains ferritic, even after dilution with an austenitic base metal forming elements such as Mn, Ni und C and is thus highly craresistant. Plastic weld metal of high tensile strength, impact proof, toug and acid and heat resistant up to 1,000° C.</li> <li>Hardness after strain-hardening: ca. 360 HB</li> <li>Soft, intense fusion, easy slag removal, finely rippled beads. Suitable for welding.</li> <li>Joint weld with a short arc using stringer bead techniques. Maximum we thickness &lt; 30 mm. The weld metal alloy strain-hardens during use.</li> </ul>								ontent). The enitic base highly crack roof, tough, Suitable for ximum wall				
Operating temperature		20°C up to 300° C											
Base materialsDifficult-to-weld base materials such as: high-carbon steel, tool steel, spring steel, manganese steel, case-hardening steel, high-speed steels, cast steels, screening steels, Suitable for joining these materials to each other or to dissimilar steels. Also suitable for surfacing and repair welding rails, shafts, couplings, im- pellers, hot work tools, pressing and trimming tools, as well as stamping dies.										ed steels, s to each plings, im-			
Mechanical properties of all-weld metal ( typical values)		Tensile strength R <sub>m</sub> N/mm <sup>2</sup>			Yield strength R <sub>p0,2</sub> N/mm <sup>2</sup>			Elongation A₅ %		npact strengt ISO – V J + 20°C	h Hard- ness HB		
( Jpiour raidoo)		820		600				20		40	ca. 200		
		0			000				<u> </u>	10	04.200		
Weld metal ar	nalysis	С	Si		In	Cr	N	Ji	Мо				
(typical, wt %)		0,10	1,1	C	),7	28		9	2,8				
Current		= + / ~ , 42 V											
Welding positions		PA, PB, PC, PD, PE, PF											
Rebaking		1 h, 350° C + / - 10° C ( if necessary)											
Dia./Length Amperag		e (A) Pcs./pack		cket	Pcs./carton		n k	kg/1000 pcs.		. kg/packet	kg/carton		
2,5 x 300	60 - 80		225			899		-	17,8	4,0	16,0		
3,2 x 350	70 - 100		142			570		35,1		5,0	20,0		
J,Z X 300	100 140		04		276						20,0		

Rev. 000

4,0 x 350

100 - 140

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.

376

53,2

5,0

20,0

94