

CARBO S- 1.4115 CARBO T- 1.4115

International standards

	S = solid wire	T = bare rod				
Mat. No.	1.4115					
EN 1600	E 17 Mo	E 17 Mo				
DIN 8555	E6-200-PR	E6-200-PR				

Approvals

Application notes

CARBO S-1.4115 is solid wire electrode for plating and joining equal and similar ferritic Cr-steels and cast steels. Proper weldings are subject to the recommended heat treatment.

The electrode is specially suitable for sealing surfaces on water-, steamand gas-valves, especially for sulphuric gases

The deposit is resistant to seawater, thin acids and scale resistant in air

an oxidizing gases up to 950°C. The deposits can be tempered.

Operating temperature

Room temperature up to 450° C

Base materials

1.4122 (G)X35CrMo17

Recommendations for fabrication

Since ferritic steels tend to embrittlement caused by coarse grain development the heat input should be as low as possible

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For hardfacing on low alloyed base materials a preheating of 150°C-350°C subject to the thickness (on materials with higher strength 350°C) should be done.

Post weld treatment is not necessary but quench hardening to the

desired hardness may be applied

Mechanical properties of all-weld metal

Tensile Yield **Hardness Elongation HB 30** HRc annealed strength strength A₅ % $R_{p0,2} N/mm^2$ R_m N/mm² 540 340 20 ca. 200 ca. 43

(typical values)

Weld metal	analysis
(typical, wt. 9	%)

С	Si	Mn	Cr	Мо
0,2	0,5	0,5	16	1,2

Gas types EN 439			S = sol				T	= bare	rod	
		M 12 / M 13			I1					
Current		= +			= -					
Diameter	mm	0,8	1,0	1,2	1,6	1,6	2,0	2,4	3,2	4,0
Welding amps	(A) min.	80	120	180	250					
	(A) max.	130	190	250	320					
		D000 4				401				

coils, weight

B300 15 kg.

10 kg.

Rev. 001/13

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.