

# CARBO S- 4430 Si

# CARBO T- 4430

### International standards

	S = solid wire	T = bare rod
Mat. No.	1.4430	
EN 12072	G 19 12 3 L Si	W 19 12 3 L Si
AWS A 5.9	ER316LSi	ER316LSi

### Approvals

TÜV, DB, CE

TÜV, DB, CE

### Application notes

Solid wire electrode for joining corrosion-proof CrNiMo steels of low carbon content as well as stabilised and non-stabilised steels of identical or similar characteristics which are resistant to chemical agents. Used on a base metal of identical characteristics the weld metal is resistant to wet corrosion up to 400° C.  
Scale resistant up to 875° C in an air and oxidising gases atmosphere.  
No intercrystalline corrosion due to low carbon content.  
The deposit is capable of taking high polish.  
Also approved for joining austenitic to ferritic steels (weld thin stringer beads)

### Operating temperature

-120° C bis +400° C

### Base materials

1.4404	X2CrNiMo17-13-2	1.4437	GX6CrNiMo18-12
1.4435	X2CrNiMo18-14-3	1.4408	GX5CrNiMo19-11-2
1.4409	GX2CrNiMo19-11-2	1.4571	X6CrNiMoTi17-12-2
1.4429	X2CrNiMoN17-13-3	1.4580	X6CrNiMoNb17-12-2
1.4401	X5CrNiMo17-12-2	1.4581	GX5CrNiMoNb19-11-2
1.4436	X3CrNiMo17-13-3	1.4583	(G)X10CrNiMoNb18-12

### 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 A <sub>5</sub> %	Impact strength ISO – V J at 20° C
550	320	35	70

### Weld metal analysis

(typical, wt. %)

C	Si	Mn	Cr	Ni	Mo
0,02	0,8	1,7	18,8	12,5	2,8

### Gas types EN 439

S = solidwire

M12, M13

T = bare rod

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					

### coils, weight

Rev. 001/13

B300 15 kg.

10 kg.