

**Solid copper coated wire for gas welding on carbonated steel, of non-alloy or low alloy. It has many applications in metal construction, thanks to its excellent mechanical properties.**

## ■ Classification

AWS 5.18 : ER 70S-6  
EN ISO 14341-A : G46 4 M21 3Si1 / G 42 3 C1 3Si1  
DIN 8559 : SG2

## ■ Applications

- \* Automotive production,
- \* Railway construction
- \* Shipbuilding
- \* Construction.
- \* Tanks, boilers

## ■ Benefits

- ✓ Excellent ignition properties.
- ✓ Great arc stability on high currents.
- ✓ Good wire resistance to corrosion.
- ✓ Welding in all positions.

## ■ Polarity

DC +

## ■ Chemical properties

C %	Mn %	Si %	S %	P %	Cu %
0.07	1.40	0.80	0.012	0.012	0.10

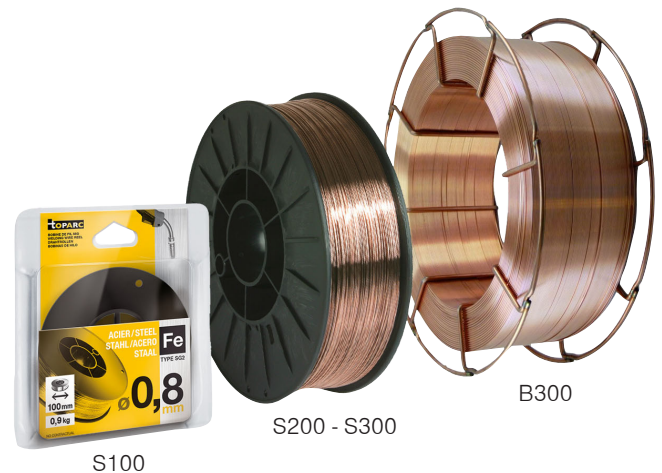
## ■ Mechanical properties

Re	Rm	A 5 d	KV 20°C	KV -20°C	KV -40°C
470 Mpa	560 Mpa	26%	150 J	90 J	50 J

## ■ Recommendations

Ø wire (mm)	0.8	1.0	1.2
thickness (mm)	< 5	6 ▶ 8	8 ▶ 12
voltage (V)	16 ▶ 28	17 ▶ 32	18 ▶ 34
current (A)	60 ▶ 200	80 ▶ 260	100 ▶ 360

Gas protection in compliance with EN ISO 14175  
100% CO<sub>2</sub> (C1) or Argon / CO<sub>2</sub> (M21, 8 < 20% CO<sub>2</sub>)



## Packaging

weight (kg)	Wire reel type		Wire diameter (mm)			
			Ø 0.6	Ø 0.8	Ø 1.0	Ø 1.2
0.9	S100	—	086593	086609	—	—
5	S200	—	086111	086128	086135	—
15	S300	—	086166	086227	086234	086241
15	—	B300	—	086272	—	—
18	—	B300	—	—	086289	086296