

Lastifil 20 C

Solid welding wire - MAG welding of non alloy steel

CLASSIFICATION

EN ISO 14341-A : G 42 4 M21 3Si1

AWS A5.18 : ER 70S-6

GENERAL DESCRIPTION

Copper coated welding wire for steel constructions with very high requirements for mechanical characteristics and weldability. The perfect spooling, the uniform copper coating, the low torsion in the wire, the small tolerances on the diameter and the high degree of purity, guarantee an optimal and constant welding quality.

The mechanical characteristics are higher than those of most lime type electrodes.

APPLICATIONS

For boiler work, machine building, ship building, sheet metal welding etc...

Structural steel: S185, S235 - S355 (EN 10025).

Boiler plate: P235GH, P265GH, P295GH (EN 10028-2).

Pipe steel: P235T1 - P355N (EN 10217-1); P235T2 - P355N (EN 10217-3); StE290.7TM - StE480.7TM (EN 10208-2).

API steel: X42 - X70.

Fine grain steel: StE355 - StE460 (EN 10028-3).

Hull steel grade A, B, D, E, AH32 - EH36.

Cast steel GS38, GS45.

BS 4360 grades 40, 43 and 50.

CHEMICAL COMPOSITION (%) (Typical values, all weld metal)

C : 0.06 - 0.14	Mn : 1.30 - 1.60	Si : 0.70 - 1.00	P : < 0.025	S : < 0.025
Cu : < 0.35	Fe : Balance			

MECHANICAL PROPERTIES (Typical values, all weld metal)

Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation 5d (%)	Impact Strength Charpy V notch (ISO-V)
≥ 420 MPa	500 - 640 MPa	≥ 20%	≥ 47 J (-30°C)

GENERAL INFORMATION

Welding positions All

Shielding gas Ar/CO₂, M21 (EN ISO 14175) or 100% CO₂

Packing 15 kg spool (in a cardboard box)

Polarity DC+

Diameter (mm)	0.6	0.8	1.0	1.2	1.6
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Tips & tricks Gas flow in short arc, 8 to 10 litre/min (17-21 cu.ft./hr) and in spray arc, 12 to 17 litre/min (25-36 cu.ft./hr). When welding outdoors protect the welding area against wind and increase the gas flow. You will obtain the highest mechanical strength in short arc (lower burn off of alloying elements).