

# Ultramag® SG3

## TOP FEATURES

- Good performances in terms of feedability and weldability
- Stable arc and low spatter
- High productivity

## TYPICAL APPLICATIONS

- General Constructions
- Heavy Fabrication
- Infrastructures
- Automotive

## CLASSIFICATION

AWS A5.18	ER70S-6
EN ISO 14341-A	G46 3 C1 4Si1 / G46 5 M20 4Si1 / G46 5 M21 4Si1

## SHIELDING GASES (ACC. EN ISO 14175)

M21	Mixed gas Ar+ >15-25% CO2
M20	Mixed gas Ar+ >5-15% CO2
C1	Active gas 100% CO2

## APPROVALS

ABS	LR	DNV	TÜV	DB	CE
+	+	+	+	+	+

## CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

C	Mn	Si
0.08	1.70	0.85

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)	
						-40°C	-50°C
Typical values	M21	AW	490	590	25		90
	C1	AW	480	570	26	180	

\* AW = As welded

## PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)
0.8	SPOOL (S300)	15.0
	SPOOL (B300)	16.0
	SPOOL (BS300)	16.0
	DRUM	250.0, 500.0
1.0	SPOOL (S300)	15.0
	SPOOL (B300)	16.0
	SPOOL (BS300)	16.0
	DRUM	250.0, 500.0
1.2	SPOOL (B300)	16.0, 18.0
	SPOOL (BS300)	16.0
	DRUM	250.0, 500.0
1.6	DRUM	250.0

### TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application

Safety Data Sheets (SDS) are available here:



Subject to Change – The information is accurate to the best of our knowledge at the time of printing.  
Please refer to [www.lincolnelectric.eu](http://www.lincolnelectric.eu) for any updated information.