

# LNM 19

## TOP FEATURES

- Also suitable where some resistance to hydrogen attack by sulphur bearing crude oil is required.
- Excellent mechanical characteristics.
- Can also be used to weld 0.9% Cr and 0.5% Mo steels.

## TYPICAL APPLICATIONS

- Oil & Gas
- Thermal Power
- Pressure vessels
- Chemical
- Boilers, plates, tubes steels

## CLASSIFICATION

AWS A5.28 ER80S-B2\*  
EN ISO 21952-A G CrMo1Si

\* Nearest classification ER80S-B2

## SHIELDING GASES (ACC. EN ISO 14175)

M21 Mixed gas Ar+ 15-25% CO<sub>2</sub>  
C1 Active gas 100% CO<sub>2</sub>  
M13 Mixed gas Ar+ 0.5-3% O<sub>2</sub>

## APPROVALS

TÜV	CE
+	+

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

C	Mn	Si	Cr	Mo
0.1	1.0	0.5	1.2	0.5

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J) +20°C
Typical values	M21	PWHT 700°C/1h	530	635	23	160

\* PWHT = Post Weld Heat Treatment

## PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.0	SPOOL (BS300)	15.0	581089
1.2	SPOOL (BS300)	15.0	581065

## 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.  
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