# Supercore<sup>™</sup> 16.8.2

### **TOP FEATURES**

• Suited to the most demanding vertical and overhead welding applications, including fixed pipework for ASME

#### CLASSIFICATION

EN ISO 17633-B TS16-8-2-F C1/M21 1\*

\* Nearest classification

## **CURRENT TYPE**

DC+

#### SHIELDING GASES (ACC. EN ISO 14175)

M21	Mixed gas Ar+ 15-25% CO₂
C1	Active gas 100%
Flow rate	20-25 l/min

Proprietary gases may be used but argon should not exceed 85%.

#### **CHEMICAL COMPOSITION (WEIGHT %), WELD METAL**

	С	Mn	Si	S	Р	Cr	Ni	Mo*	Cu	FN
Min.	0.04	0.5				14.5	7.5	1.0		1
Max.	0.08	2.0	0.70	0.03	0.04	17.0	10.0	2.0	0.5	8
Typical	0.05	1.2	0.5	0.01	0.02	16.2	9.2	1.1*	0.1	4

\*Mo controlled around 1.0 – 1.3% unless requested otherwise.

#### MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

			Typical	High Temperature			
As welded		Min.		650°C	732°C	816°C	
Tensile strength	(MPa)	560	620	290	224	160	
0.2% Proof strength	(MPa)		410	207	180	134	
Elongation (%)	4d	35	42				
	5d	25	42	30	44	39	
Reduction of area (%)			50	66	68	79	
Impact ISO and LE*-V(J) (mm)	+ 20°C		100 (1.8)				
	-130°C		50 (0.8)				
	-196°C		45 (0.7)				

\*LE = Charpy lateral expansion, mm (0.38mm = 15 mils)

#### PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.6	SPOOL (S300)	15.0	SC1682-12



# SPECIAL ALLOYS

#### 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 <u>www.lincolnelectric.eu</u> for any updated information.



