Outershield® 20-H

TOP FEATURES

- Superior weldability, low spatter, good bead appearance
- Outstanding operator appeal
- Superior product consistency with optimal alloy control
- Excellent wire feeding

TYPICAL APPLICATIONS

- Power Generation
- Welding of 2.25%Cr 1%Mo creep resistant steels.

CLASSIFICATION

 AWS A5.29
 E 91T1-B3M-H4

 EN ISO 17634-A
 T CrMo2 P M 2 H5

CURRENT TYPE

DC+

WELDING POSITIONS

All except vertical down

SHIELDING GASES (ACC. EN ISO 14175)

M21	Mixed gas Ar+ (>15-25%) CO₂
Flow rate	15-25 l/min

APPROVALS

ТÜV
+

CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, ALL WELD METAL

Shielding gas	С	Mn	Si	Р	S	Cr	Мо	HDM
M21	0.07	0.75	0.21	0.013	0.008	2.23	1.09	3 ml/100 g

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Shielding		Condition*	Yield strength	Tensile strength	Elongation	Impact ISO-V (J)	
	Shielding gas		(MPa)	(MPa)	(%)	+20°C	-20°C
Required: ISO 17634-A		SR = 690 ± 15°C/1h	min. 540	620-760	min. 17	not specified	
EN ISO 17634-A		SR = 690-750°C/1h	min. 400	min. 500	min. 18	min. 47	
Typical values	M21	SR = 1h/690°C	570	680	19	150	60

* SR = Stress relieved

PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	ltem number	
1.2	SPOOL (S300)	16.0	943025N	

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.

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