Outershield® 71M-H

TOP FEATURES

- Specially developed for welding with 100% CO₂ and optimised for Ar/CO₂ mix gas; smooth arc with low spatter.
- Good mechanical properties (CVN > 47J at -30°C for CO₂).
- Perfect root pass welding on ceramic backing.
- High current capacity, especially in positional welding.
- Stable mechanical properties over the wider range of heat input.

TYPICAL APPLICATIONS

- Shipbuilding
- Steel construction
- HYPERFILL

CLASSIFICATION

AWS A5.20 E71T-1/9C-H4 / E71T-1/9M-H4
EN ISO 17632-A T 46 3 P C1 1 H5/T 46 2 P M21 2 H5

CURRENT TYPE

DC+

WELDING POSITIONS

All except vertical down

SHIELDING GASES (ACC. EN ISO 14175)

M21 Mixed gas Ar+ 15-25% CO₂ C1 Active gas 100% CO₂ Gas flow 15-25 l/min

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

Shielding gas	С	Mn	Si	Р	S	HDM
C1	0.05	1,3	0.4	0.015	0.009	3 ml/100 g
M21	0.05	1,47	0.5	0.015	0.009	4 ml/100 g

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact -20°C	ISO-V (J) -30°C
Required: AWS A5.20			min. 400	min. 480	min. 22		
EN ISO 17632-A			min. 460	530-680	min. 20		min. 47
Typical values	M21	AW	595	650	26	80	
	C1	AW	530	590	25		70

^{*} AW = As welded

PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	ltem number			
1.2	SPOOL (B300)	16.0	900700N, 900728N			
1.6	SPOOL (S300)	16.0	900742NE			

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 for any updated information.

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