

Outershield® MC715-H

TOP FEATURES

- High deposition rate and excellent weldability. Low amount of silicates. Suitable for single and multipass automatic welding.
- Excellent arc characteristics give outstanding operator appeal.
- Excellent mechanical properties (CNV >47) at -40°C
- Very good weldability with short, pulsed and spray arc. Suitable for robotic applications. Bridging and root passing capabilities with short and pulsed arc.
- Applicable for welding of flanges of wind mill towers.

TYPICAL APPLICATIONS

- Steel construction
- Offshore
- Welding of wind tower flanges
- HYPERFILL

CLASSIFICATION

AWS A5.18 E70C-6M H4
EN ISO 17632-A T 46 4 M M2 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

BV	DNV	RINA	DB
+	+	+	+

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

Shielding gas	C	Mn	Si	P	S
M21	0.04	1.5	0.4	0.012	0.020

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)	
Required: AWS A5.18			min. 400	min. 480	min. 22	-30°C	-40°C
EN ISO 17632-A			min. 460	530-680	min. 20		min. 47
Typical values	M21	AW	480	580	27	120	110

* AW = As welded

PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.2	SPOOL (S200)	5.0	900436
	SPOOL (B300)	16.0	900402N
	SPOOL (S300)	16.0	900401N, 900429NE
	DRUM	200.0	900492, 941930
1.4	SPOOL (B300)	16.0	900408N
	DRUM	200.0	900491
1.6	SPOOL (B300)	16.0	900415N
	SPOOL (S300)	16.0	900470N
	DRUM	200.0	941932

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.