P223

TOP FEATURES

- Excellent choice for Spiral mills application.
- Compatible with a large range of pipe diameters.
- Up to 3 arcs configuration.

CLASSIFICATION

Flux	EN ISO 14174: S A AB 1 67 AC H5

Flux/wire	EN ISO 14171-A: TR	AWS A5.17 / A5.23
P223 / L-61	S 4T 2 AB S2Si	F7A4-EM12K
P223 / L-50M	S 4T 2 AB S3Si	F7A5-EH12K
P223 / LNS 140A	S 4T 4 AB S2Mo	F8A4-EA2-A2
P223 / LNS 133TB		F8TA4G-EG

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

Wire grade	C	Mn	Si	P	S	Mo
L-61	0.08	1.4	0.2	<0.02	<0.015	
L-50M (LNS 133U)	0.07	1.7	0.3	<0.02	<0.015	
LNS 140A (L-70)	0.08	1.4	0.2	0.03	<0.025	0.4

Remark: the chemical composition from butt welds in pipe depends on the chemical composition of base material.

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Wire grade	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Impact ISO-V (J) -20°C	Impact ISO-V (J) -40°C
L-61	TR	450	550	60	
L-50M (LNS 133U)	TR	470	570	80	
LNS 140A (L-70)	TR	500	600		50
LNS 133TB	TR	510	610		60

* TR = Two-Run

FLUX CHARACTERISTICS

Current type	DC/AC
Basicity (Boniszewski)	1.6
Solidification speed	High
Density (kg/dm³)	1.2
Grain size (EN ISO 14174)	2 -20

PACKAGING AND AVAILABLE SIZES

Packaging	Weight (kg)	Item number
SRB BAG	25.0	FXP223-25SRB

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.

P223-EN-15/03/24