

998N

TOP FEATURES

- Suitable for both seam and spiral pipe welds.
- Recommended for automatic single pass/2-run welding with up to five arcs.
- Very high current capacity.

CLASSIFICATION

Flux	EN ISO 14174: S A AB 1 67 AC H5	
Flux/wire	EN ISO 14171-A: TR	AWS A5.23
998N / LNS 140A	S 4T 2 AB S2Mo	
998N / LNS140TB	S 5T 5 AB S2MoTiB	F9TA6-G-EA2TiB
998N / LNS133TB		F9TA6-G-EG

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

Wire grade	Base material	C	Mn	Si	P	S	Mo	Ti	B	N
LNS 140TB (LA-81)	X65	0.067 / 0.076	1.41 / 1.51	0.28 / 0.34	0.017 / 0.020	0.003 / 0.004	0.22 / 0.27	0.024 / 0.034	0.0028 / 0.0036	0.005 / 0.01
LNS 140TB (LA-81)	X80	0.045 / 0.06	1.6 / 1.64	0.35 / 0.4	0.016 / 0.017	0.004 / 0.005	0.3 / 0.35	0.031 / 0.034	0.0029 / 0.0032	0.005 / 0.006

Remark: the chemical composition from butt welds in pipe depends on the chemical composition of base material. Proced1: triple arc application on X65 plate 15.9 mm thick; Proced2: tandem applications on X80 plate 12.7mm thick.

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Wire grade	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)				Hardness
					-20°C	-40°C	-50°C	-60°C	
Procedure 1									
LNS 140A (L-70)	AW	570	680	27					230
LNS 140TB (LA-81)	AW	610	700	27	115	75	50		235
Procedure 2									
LNS 140TB (LA-81)	AW	640	730	24	160	120	90	70	220-235
Procedure 3									
LNS 133TB	TR	610	730	26			120	80	

Remark: the mechanical properties from butt welds in pipe depends on the chemical composition of base material. Procedure 1: tandem in 12.5mm X65; Procedure 2: multiwire weld (4/5 wires) in 19-25mm X65; Procedure 3: AWS test plate

* AW = As welded; TR = Two-Run

FLUX CHARACTERISTICS

Current type	DC/AC
Basicity (Boniszewski)	1.3
Solidification speed	Fast
Density (kg/dm ³)	1.3
Grain size (EN ISO 14174)	2 -20

PACKAGING AND AVAILABLE SIZES

Packaging	Weight (kg)	Item number
SRB BAG	25.0	112054
BIG BAG	1000.0	112061

998N-EN-15/03/24

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.