

8500

TOP FEATURES

- Capable of providing impact properties necessary for thick weld joints from root to cap pass
- Operates well on AC and multiple arcs with good resistance to nitrogen porosity
- Capable of producing weld deposits with impact properties exceeding 27 J at -62 °C

CLASSIFICATION

Flux	EN ISO 14174: S A FB 1 54 AC H5		
Flux/wire	EN ISO 14171-A: MR	EN ISO 14171-A: TR	AWS A5.17 / A5.23
8500 / L-61	S 38 4 FB S2Si	S 4T 0 FB S2Si	F7A6/F6P8-EM12K
8500 / L-50M	S 42 6 FB S3Si	S 4T 2 FB S3Si	F7A6/F7P8-EH12K
8500 / LNS 140A	S 42 4 FB S2Mo		F8A6-EA2-A2
8500 / LNS 160	S 42 5 FB S2Ni1*		F7A8/P8-ENi1-Ni1
8500 / LNS 162	S 42 6 FB S2Ni2*		F7A8/P8-ENi2-Ni2
8500 / LNS 165 (LA85)	S 50 6 FB S3Ni1Mo0.2		F8A8/F7P8-ENi5-Ni5
8500 / LNS T55	S 50 4 FB TZ		

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

Wire grade	C	Mn	Si	P	S	Mo	Ni
L-61	0.08	1.0	0.2	<0.02	<0.015		
L-50M (LNS 133U)	0.07	1.4	0.3	<0.02	<0.015		
LNS 140A (L-70)	0.08	0.9	0.2	0.03	<0.025	0.4	
LNS 160	0.07	1.0	0.1	0.02	0.015		0.95
LNS 162	0.08	1.0	0.1	0.02	0.015		2.0
LNS 165 (LA 85)	0.07	1.3	0.2	0.02	0.015	0.2	0.9
LNS T55	0.08	1.7	0.7	<0.015	<0.015		

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Wire grade	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)		
					-20 °C	-40 °C	-60 °C
L-61	MR	420	510	28	150	100	50
L-50M (LNS 133U)	MR	450	540	28		110	
L-50M (LNS 133U)	SR	>420	>500	30		150	
LNS 140A (L-70)	MR	440	540	28		55	
LNS 160	AW	430	510	30		150	60
LNS 160	SR	400	510	30		150	90
LNS 162	AW	470	560			150	70
LNS 162	SR	450	530			150	100
LNS 165 (LA 85)	AW	530	600	25		120	50
LNS 165 (LA 85)	SR	480	580	30		120	60
LNS T55	AW	530	620		120	80	
LNS T55	SR	500	570			70	

* MR = Multi-Run; TR = Two-Run; AW = As welded; SR = Stress relieved

FLUX CHARACTERISTICS

Current type	DC/AC
Basicity (Boniszewski)	2.8
Solidification speed	Medium
Density (kg/dm ³)	1.3
Grain size (ISO 14174)	2 - 20

PACKAGING AND AVAILABLE SIZES

Packaging	Weight (kg)	Item number
DRUM	250.0	FX8500-250
SRB BAG	25.0	FX8500-25SRB

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.