

761/761-CG

CLASSIFICATION

Flux	Flux/wire			
ISO 14174 S A CS/MS 1 88 AC H5	761 / L-60	AWS A5.17 / A5.23	ISO 14171-A : MR	ISO 14171-A : TR
	761 / L-61	F7A2-EL12	S 38 2 CS/MS S1	S 4T 0 CS/MS S2Si
	761 / LNS 140A	F7A2-EM12K	S 42 2 CS/MS S2Si	S 4T 2 CS/MS S2Mo
	761 / L-70	F9A0-EA2-G	S 50 0 CS/MS S2Mo	S 4T 2 CS/MS S2Mo
		F9A0-EA1-G	S 50 0 CS/MS S2Mo	S 4T 2 CS/MS S2Mo

GENERAL DESCRIPTION

- High current capacity
- Active flux for limited pass welding
- High restraint cracking resistant
- Suitable for rusty/dirty plates (at high current)
- Applicable for low quality steels
- Coarse grain flux more suitable with the most rusty and dirty plates

APPROVALS

Wire grade	ABS	BV	CRS	DNV	PRS	GL	LRS	RINA	RMRS	TÜV
L-60										✓
LNS 135										✓
L-61	3YM/2YT	3YM/2YT	3YM/2YT	2YT	3YM/2YT	3YM/2YT	3YM/2YT	3YM/2YT	2YT	✓
LNS 140A (L-70)	3Y40M/3Y40T	3Y40M/3Y40T		3Y40M/3Y40T	3Y40M/2Y40T	3Y40M/3Y40T	3Y40M/3Y40T	3Y40M/3Y40T	3Y40M/3Y40T	✓

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

Wire grade	C	Mn	Si	P	S	Mo
L-60	0.05	1.5	0.7	<0.03	<0.025	
L-61	0.08	1.7	0.9	<0.03	<0.025	
LNS 140A (L-70)	0.06	1.7	0.8	<0.03	<0.025	0.4

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Wire grade	Condition*	Yield strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)	Impact ISO-V(J)	
					0°C	-20°C
L-60	MR	380	500	28	80	50
L-61	MR	440	530	28	100	50
	TR	>420	>540		65	
LNS 140A (L-70)	MR	480	600		80	40
	TR	>440	>540		100	55

* MR : Multirun - TR : Two-run

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EXAMPLES OF MATERIALS TO BE WELDED

Code	Type/ Steel grades	Limited passes		
		L-60	L-61	LNS 140A (L-70)
Ship plates				
	A to D, A (H) 32 to D(H) 36	✓	✓	✓
General structural steels				
EN 10025 part 6	500 A			✓
EN 10025 part 3/part 4	S275 to S420, N,M	✓	✓	✓
EN 10149	S315 to S420, MC	✓	✓	✓
	S315 to S420, NC	✓	✓	✓
	S460, MC & NC			✓
EN 10025 part 2	S185 to S355, E295 to E360, JR(G1 & G2), J0, J2 (G3&G4)	✓	✓	✓
Boiler & pressure vessel steels				
EN 10028	P235 to P420, GH N, NH, M, Q & QH	✓	✓	✓
	P235 to P460, GH, N, NH, M, Q & QH	✓	✓	✓
	P500, GH, N, NH, M, Q & QH, P235 S, P265 S	✓	✓	✓
	A37 to A52, CP, AP	✓	✓	✓

FLUX CHARACTERISTICS

Current type	DC/AC
Basicity (Boniszewski)	0.8
Solidification speed	Low, viscous slag
Density (kg/dm ³)	1.2
Grain size (ISO 14174)	761 : 1 - 16 / 761-CG : 1 - 20

SUGGESTIONS FOR USE

Wire	Characteristics
L-60	To prevent defects from organic components
L-61	Reliable properties
LNS 140A (L-70)	For good impact toughness in two-run as welded

Applications

Flat fillet, large throat
Butt joints in two passes, in medium and thick plates
Flux backing, modified series arc welding

PACKAGING AND AVAILABLE SIZES

Unit	Net weight (kg)
Bag	25
Metal drum	250
Big Bag	500 / 1000