

Flux

Classification

Flux 761	EN 760 :	S A CS/MS 1 88 AC H5	
Flux/wire	AWS A5.17 / A5.23	EN 756 : MR	EN 756 : TR
761 / L-60	F7A2-EL12	S 38 2 CS/MS S1	
761 / L-61	F7A2-EM12K	S 42 2 CS/MS S2Si	S 4T 0 CS/MS S2Si
761 / LNS 140A	F9A0-EA2-G	S 50 0 CS/MS S2Mo	S 4T 2 CS/MS S2Mo
761 / L-70	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-61	3YM/2YT	A3YM/A2YT	3YM/2YT	2YT	3YM/2YT	3YM/2YT	3YM/3YT	3YM/2YT	2YT	X
LNS 140A	2YTM	A3YM/A3YT		2Y40M/3Y40T	3YM/2YT	3YTM	2YM/2YT	3YM/3YT	2YM/3YT	X
L-60										X
LNS 135										X
L-70										X

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	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	MR	480	600		80	40
	TR	>440	>540		100	55

MR: multi run

TR: two-run

761 / 761-CG: rev. EN 23

Liability: All information in this data sheet is based on the best available knowledge, is subject to change without notice and can only be considered as suitable for general guidance **Fumes:** Consult information on Welding Safety Sheet, available upon request

Suggestions for use

Wire	Characteristics	Applications
L-60	To prevent defects from organic components	Flat fillet, large throat
L-61	Reliable properties	Butt joints in two passes, in medium and thick plates
LNS 140A	For good impact toughness in two-run as welded	Flux backing, modified series arc-welding Low quality steels

Materials to be welded

STEEL / STANDARD	TYPE	Limited runs		
		L60	L61	LNS140A
Ship plates				
	A to D, A (H) 32 to D(H) 36	x	x	x
General Structural steel				
EN 10025 part 6	500 A			x
EN 10025 part 3/part 4	S275 to S420, N,M	x	x	x
EN 10149	S315 to S420, MC	x	x	x
	S315 to S420, NC	x	x	x
	S460, MC & NC			x
EN 10025 part 2	S185 to S355, E295 to E360, JR(G1 & G2), J0, J2 (G3&G4)	x	x	x
Boiler & pressure vessel steel				
EN 10028	P235 to P420, GH N, NH, M, Q & QH	x	x	x
	P235 to P460, GH, N, NH, M, Q & QH	x	x	x
	P500, GH, N, NH, M, Q & QH			x
	P235 S, P265 S	x	x	x
	A37 to A52, CP, AP	x	x	x

Flux characteristics

Current type	DC / AC
Basicity (Boniszewski)	0,8
Solidification speed	Low, slag viscous
Density (kg/dm ³)	1,2
Grain size	761 : 1-16 761-CG : 1-20

Packaging and available sizes

Unit	Net weight (kg)
Bag	25
Sahara ReadyBag™ (SRB)	25
Steel drum	250
Big Bag	1000