

OP 41TT

TOP FEATURES

- Highly basic flux for welding high-tensile fine-grain structural steels
- Used with wire containing a higher level of manganese and silicon
- Suitable for DC+ and AC welding, single or tandem configurations

CLASSIFICATION

Flux	EN ISO 14174: SA FB 1 53 AC H5	
Flux/wire	AWS A5.17	AWS A5.23
OE-SD3	F7A8/F6P8-EH12K	
OE-S2Mo		F8A8/F6P5-EA2-A2
OE-SD3Mo		F8A6/F8P6-EA4-A4
OE-S2 Ni1		F7A8/F7P10-ENi1-Ni1
OE-SD3 1Ni 1/2Mo		F9A8/F9P8-EF3-F3

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

Wire grade	C	Mn	Si	Cr	Ni	Mo
OE-SD3	0.07	1.6	0.3			
OE-S2Mo	0.07	0.8	0.2			0.5
OE-SD3Mo	0.07	1.3	0.2			0.5
OE-S2 Ni1	0.07	1.1	0.3	0.15	1.15	0.3
OE-SD3 Ni 1/2Mo	0.07	1.6	0.3		0.9	0.5

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Wire grade	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)					
					+20°C	0°C	-20°C	-40°C	-46°C	-60°C
OE-SD3	AW	≥420	530-630	≥24	≥170	≥150	≥120	≥70		≥40
OE-S2Mo	AW	≥490	570-670	≥20	≥140	≥120	≥100	≥70		≥50
OE-SD3Mo	AW	≥500	560-660	≥24					≥40	
OE-SD3Mo	PWHT 620°C/2h	≥470	550-650	≥25					≥40	
OE-S2 Ni1	AW	≥420	500-600	≥24	≥150	≥130	≥100	≥70		≥50
OE-S2 Ni1	PWHT 600°C/2h	≥380	480-500	≥26	≥170	≥140	≥110	≥90		≥70
OE-SD3 Ni 1/2Mo	AW	≥560	650-700	≥20			≥50	≥80		≥100
OE-SD3 Ni 1/2Mo	PWHT 620°C/16h	≥540	620-700	≥22			≥50	≥80		≥100

*AW = As welded; PWHT = Post weld heat treatment

FLUX CHARACTERISTICS

Current type	AC, DC+
Basicity (Boniszewski)	3.1
Grain size (EN ISO 14174)	2-20
Redrying	300-350°C x 2-4h

PACKAGING AND AVAILABLE SIZES

Packaging	Weight (kg)	Item number
DRY BAG	25.0	W000280057

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.