OP CROMO F537

TOP FEATURES

- Designed for the welding of creep resistant steels 2,25Cr-1Mo-0,25V and 2,25Cr-1Mo
- Very low X-factor and J factor in the weld metal
- Very low silicon pick-up
- No reduction in toughness after "Step Cool" heat treatment with OE-CROMO S225 wire

CLASSIFICATION

Flux	EN ISO 14174: SA FB 1 55 AC H5

Flux/wire	AWS A5.23
OE-SD3 1Ni 1/2Mo	F10A8/F9P8-EF3-F3
OE-S1 CrMo5	F8P0-EB6-B6
OE-CROMO S225	F9P2-EB3R-B3
OE-CROMO S225V	F9P2-EGR-GR

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

Wire grade	C	Mn	Si	Cr	Ni	Mo	Nb	V
OE-SD3 1Ni 1/2Mo	0.11	1.8	0.3		0.93	0.5		
OE-S1 CrMo5	≤0.12	≤1	≤0.5	5		0.5		
OE-CROMO S225	≤0.12	≤1	≤0.25	2.2		1		
OE-CROMO S225V	≤0.12	≤1	≤0.25	2.4		1	0.02	0.25

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Wire grade	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)			
					0°C	-20°C	-40°C	-60°C
OE-SD3 1Ni 1/2Mo	AW	≥650	740-800	≥21				>47
OE-SD3 1Ni 1/2Mo	PWHT 640°C/6h	≥570	700-740	≥22				>47
OE-S1 CrMo5	PWHT 760°C/2h	≥470	550-700	≥20		≥54		
OE-CROMO S225	PWHT 690°C/8h	≥540	620-750	≥18	≥100	≥100	≥50	
OE-CROMO S225V	PWHT 710°C/8h	≥540	620-750	≥18		≥27		

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

FLUX CHARACTERISTICS

Current type	DC, AC
Basicity (Boniszewski)	~2.6
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	W000380061

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.