



FLUX UP BF10MW

*Agglomerated Welding Flux
Fluoride-basic type*

Classification

ISO 14174 S A FB 1 55 AC H5

Description & Applications

Fluoride-Basic agglomerated Flux for submerged arc welding (SAW-process) with high basicity and low impurity levels such as P and S. As a result of low oxygen levels in the weld deposits, uniform mechanical properties with high toughness values at low temperature are achieved down to -80°C. Designed for multi wire application where high deposition rate is well as good slag removal is required. This flux shows excellent weldability and weld bead appearance.

Used for construction steels, cold tough steels for low temperature application down to -80°C, high tensile fine grain steels as S690QL, boiler and vessel steels.

Could be used on DC and AC welding, using single, tandem wire or multi wires.

Wires recommended for

ISO 14341-A	AWS A5.17
S2	EM12
S3Si	EH12K
S2Mo	EA2
S2Ni1	ENi1
S2Ni2	ENi2
S2Ni3	ENi3
S3Ni1Mo0.2	ENi5
ISO 26304-A	AWS A5.23
S3Ni1Mo	EF3
S3Ni2.5CrMo	~EM4

Typical Chemical Composition (%)

SiO ₂ + TiO ₂	Al ₂ O ₃ + MnO	CaO + MgO	CaF ₂	Basicity according To Boniszewski
15	20	35	30	~3.2

Flux Properties

Density (kg / dm ³)	Grain size ISO 14174	Current carrying capacity
0.95	2-20 ; Tyler 8x65	Up to 800 A (AC or DC) using one wire

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All Weld Metal Typical Chemical analysis (%)

Wire	C	Si	Mn	Cr	Ni	Mo
S2	0.05-0.09	0.1-0.3	0.8-1.2			
S3Si	0.05-0.09	0.2-0.5	1.2-1.6			
S2Mo	0.05-0.09	0.1-0.3	0.8-1.2			0.5
S2Ni1	0.05-0.09	0.1-0.3	0.8-1.4		1.0	
S2Ni2	0.05-0.09	0.1-0.3	0.8-1.4		2.0	
S2Ni3	0.05-0.09	0.1-0.3	0.8-1.2		3.0	
S3Ni1Mo0.2	0.05-0.09	0.2-0.4	1.1-1.5		1.0	0.25
S3Ni1Mo	0.05-0.09	0.1-0.3	1.2-1.6		1.0	0.5
S3Ni2.5CrMo	0.05-0.09	0.1-0.3	1.2-1.6	0.5	2.5	0.5

All Weld Metal Typical Mechanical properties

Wire		R _{p0,2} (MPa)	R _m (MPa)	A (%)	RT	-20°C	KV (J) -40°C	-60°C	-80°C
S2	AW	>400	>490	>26	120	>100	>70	>47	
S3Si	AW	>470	>560	>25	>120	>100	>80	>47	
	S*	>430	>530	>26	>120	>100	>90	>47	
S2Mo	AW	>490	>570	>23	>100	>90	>47		
	S**	>440	>530	>24	>100	>90	>47		
S2Ni1	AW	>440	>540	>26	>160	>140	>120	>90	
S2Ni2	AW	>470	>550	>25	>160	>140	>120	>80	>47
	S*	>420	>520	>26	>160	>140	>120	>90	>47
S2Ni3	AW	>500	>590	>24	>160	>150	>120	>100	>47
	S*	>420	>520	>26	>160	>140	>120	>90	>47
S3Ni1Mo0.2	AW	>480	>560	>26	>160	>140	>120	>47	
	S*	>470	>550	>26	>160	>150	>120	>47	
S3Ni1Mo	AW	>570	>670	>22	>140	>110	>80	>47	
	S*	>550	>640	>22	>150	>110	>80	>47	
S3Ni2.5CrMo	AW	>690	>820	>18	>140	>90	>70	>47	

After PWHT: * 590°C/15h - ** 620°C/15h

Storage Recycling and Drying

It is recommended to store and use the flux up to 1 year after delivery in dry storage rooms. Nevertheless, the flux can be used even if stored for more than one year, just requires the user to make a weldability test to check if all is well.

Drying conditions specific to the flux: 300-350°C. Supplied in moisture proof packaging.

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