

Standards	EN 760	SA FB 1 65 AC
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Flux Type Fluoride-Basic

Characteristics A neutral, all purpose flux, semi-basic, agglomerated, flux for shape-and overlay welding with single or multiwire (TWIN-ARC) submerged-arc processes. It shows stable metallurgical reactions and constant operating characteristics over a wide current range, also when AC-power is applied. Low flux consumption, high resistance to porosity as well as low hydrogen potential and low sensitivity to arc-blow are typical for this flux.

The weld deposits exhibit smooth surface, good wetting and self-lifting slag detachability without "tiger-tracks", even at high welding temperature (> 300°C).

Flux with little pick-up of silicon and neutral manganese reactions.

Typical applications The flux can be welded DC (electrode positive or negative) or AC in combination with appropriate solid or, especially, metal-powder cored wires as commonly used for hardfacing, specifically for build-up or shape-welding to restore worn surface to proper dimensions, or to profile the shape of a section.
This flux is not formulated for joining or groove welding.

- Recommendations when hardfacing**
- **Cleaning:** remove rust, grease, oil and dirt before welding
 - **Surface preparation:** remove cracked, deformed and hardened surfaces by grinding or machining
 - **Deposit thickness:** avoid excessive build-up of hardfacing materials. Use buffering layer materials before applying hardfacing deposits.
 - **Thermal history:** select appropriate preheat / interpass / soaking / PWHT according to the requirements.
 - **Welding procedure:** Use appropriate amperage (typical 130-140 A / each mm wire diameter) and voltage 27-30 V at travel speed about 40 ±5 cm / min and preheat / interpass temperature according to the substrate material requirement. Low but appropriate heat input keeps dilution rate low and improves hardfacing deposits

Main constituents	SiO ₂ + TiO ₂	Al ₂ O ₃ + MnO	CaO + MgO	CaF ₂
	20 %	25 %	35%	15%

Basicity according to Boniscewski: ~ 2,0

Flux density 0,95 kg/ dm³ (lt)

Grain size according to DIN EN 760: 3 – 25 (0,3 – 2,5 mm Tyler 8 x 48

Current-carrying capacity: 1.000 A (DC or AC / 1 wire 4.0mm Ø)

Packaging: 25 kg PE- bags or 500-1250 kg Big-Bags

Storage and handling Flux can be stored up to 3 years in un-opened bag after delivery in dry storage. If, however, baking is necessary, flux should be baked at 200° ±50°C effective flux temperature.

Rev. 000

Statements on composition and application are just for the applier's information. Statements on mechanical properties always refer to the all-weld-metal according to valid standards. Carbo-Weld may change the characteristics of its products without notice. We recommend the applier to check our products for their special application autonomously.