

## DATA SHEET

### Welding grade bauxite SNW86

Welding grade bauxite has tight regulation on presence of sulfur and phosphorus which are detrimental to the weld. When present at high concentrations, they induce porosity and cracking, and at lower concentrations, they adversely affect the impact strength of the weld. And moisture for welding grade bauxite should not exceed 0.5% because the potential for any moisture present within the flux to reduce to hydrogen, if exposed to a welding arc, the molten weld pool absorbs the hydrogen and will induce brittleness into the weld.

#### Application

Welding fluxes are a small but valuable market for calcined bauxite. Techniques for submerged arc welding require the use of a granular flux to shield the molten weld pool from the atmosphere during the weld's application or placement. Various proprietary compositions exist and in some cases calcined bauxite is incorporated into these formulations. Calcined bauxite may, in some instances, make up to 25% of the welding flux.

#### Specification for SNW86

Item	AL <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)	Fe <sub>2</sub> O <sub>3</sub> (%)	K <sub>2</sub> O(%)	S(%)	P(%)
SNW86	86.0min	7.0max	1.8max	0.5max	0.02max	0.05max

#### Available powder size

80mesh; 100mesh; 200mesh; 325mesh; or as customer's requirement.

#### Package

25kgs bags; 1MT Jumbo bag; wooden pallets

