# <u>BHS Marketing</u>

## Western Briquette



### Soda Ash

**Characteristics:** Soda ash, or anhydrous sodium carbonate, is a white powdered or

> granular alkaline material, produced in two grades that differ in granulation and in bulk density. It is capable of absorbing atmospheric moisture and carbon dioxide slowly to form sodium

sesquicarbonate and various hydrates.

Na<sub>2</sub>CO<sub>3</sub> 105.99 **Properties:** Formula

Molecular

Absolute Density g/cm 2.533 (at 25 degree C)

Melting point, degree C

Solubility see graph in next pages

pH of 1% solution at 25 degree C 11.3 (Properties of pure sodium carbonate)

#### **Typical Analysis:**

- J P	Dense Soda Ash	Light Soda Ash
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ), %	99.8	99.5
Equivalent Sodium Oxide (Na,O), %	58.4	58.2
Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> ), %	0.02	0.02
Sodium Chloride (NaCl), %	0.01	0.01.
Drying loss, %	0.10	0.12
Iron (Fe)%	2	8
Bulk density, lbs/ft3	63-66	35

#### Screen analysis (cum.% on):

US No. 30	3	3
100	90	18
200	99	65

#### **Product Markets and Uses:**

Market - Aluminum manufacturers Use - Supplies sodium ion and alkalinity required to dissolve

bauxite

Market - Chemical manufacturers Use - Raw material source of alkalinity and sodium ion. Use - Basic material which supplies detergency. Market - Cleanser compounders Use - Supplies sodium ion needed in desulfurization. Market - Foundries and Steel mills. Market - Glass manufacturers. Use - Used as a fluxing agent in a glass batch.

Market - Mines Use - pH control in froth flotation

Market - Paper industry Use - Supplies the sodium ion required in the pulping of wood

fiber SO, removal.

Market - Soap Makers Use - as a raw material to saponify fatty acids.

Market - Waste water treatment plants. Use - Supplies alkalinity required in neutralization. Market - Potable water treatment plants Use - To supply the alkalinity and sodium ion need in

water softening.

Use - Scrub acid gas from air discharge streams, pH control of Market - Environmental Control

water effluents.