

Chemiebor™ 48

▶ BACKGROUND

CHEMIEBOR™ 48 is the most commonly used refined sodium borate in a wide range of industries like Ceramics, Glass & Glass Fibre, Insulation Fibre Glass etc. The main composition of **CHEMIEBOR™ 48** is Boric Oxide (B_2O_3), Sodium Oxide (as Na_2O) and water. **CHEMIEBOR™ 48** is a much-concentrated product as compared to **CHEMIEBOR™ 36** and thus leading to savings in handling, transportation & storage costs when compared cost per unit of B_2O_3 .

CHEMIEBOR™ 48 is a white, crystalline and free flowing. It is stable at room temperatures and dry indoor storage is recommended for longer shelf life.

▶ APPLICATION AND BENEFITS

CHEMIEBOR™ 48 is the most economical and multi-purpose source of boric oxide (B_2O_3) in many industrial applications like Ceramics, Glass & Fibre Glass, flame retardant etc.

In Ceramics, CHEMIEBOR™ 48 increases the strength, scratch resistance of wall & floor tiles, table & sanitaryware etc. It also plays a vital role in reducing melting temperatures and improves the fit between the glaze & body in ceramic application.

In Glass, CHEMIEBOR™ 48 is used as a source of B_2O_3 in various types of glasses - fiberglass, textile fiberglass and borosilicate glasses (heat resistant, illumination, cookware, medical/cosmetic containers etc. The vital functions of Boron are: **as a flux, to increase heat resistance of glass and maintain durability.**

Other applications of CHEMIEBOR™ 48 are as a laundry detergent booster, cleaner, preservative, fungicide, insecticide, herbicide, disinfectant and dessicant. In some industrial applications, **CHEMIEBOR™ 48** is used as a buffer, a dispersal agent, welding flux and to control viscosity



▶ GENERAL INFORMATION

Product Name	CHEMIEBOR™ 48
Chemical Name	Borax Pentahydrate, Borax 5 Mol, Di Sodium Tetraborate Pentahydrate
Chemical Formula	Na ₂ B ₄ O ₇ · 5 H ₂ O
CAS No	12179-04-3

▶ PHYSICAL PROPERTIES

Molecular Weight	291.35
Appearance	White, Odourless, Crystalline Solid
Bulk Density (Loose)	1.02 gms/cc
Particle Size	+1.2 mm. 3.0 % max. -0.075 mm. 5.0% max.

▶ CHEMICAL PROPERTIES

Boron Content (As B ₂ O ₃)	48% Typical
Na ₂ O	21.25 % Typical
Matter Insoluble in Water	1.0% Max

▶ SOLUBILITY AND pH

Solubility in Water		pH@ 20°C	
At 20°C	3.8%	pH 0.1% solution	9.3
At 100°C	51.2%	pH 1.0% solution	9.2

▶ PACKAGING

25 Kg PP Bags with Inner Liner.

*All data above are determined by Raj Borax Private Ltd analytical methods.

NOTICE:

Before using these products, please read the Product Specifications, the Safety Data Sheets and any other applicable product literature. The descriptions of potential uses for these products are provided only by way of example. The products are not intended or recommended for any unlawful or prohibited use including, without limitation, any use that would constitute infringement of any applicable patents. Nor is it intended or recommended that the products be used for any described purposes without verification by the user of the products' safety and efficacy for such purposes, as well as ensuring compliance with all applicable laws, regulations and registration requirements. Suggestions for use of these products are based on data believed to be reliable. The seller shall have no liability resulting from misuse of the products and provides no guarantee, whether expressed or implied, as to the results obtained if the products are not used in accordance with directions or safe practices. The buyer assumes all responsibility, including any injury or damage, resulting from misuse of the product, whether used alone or in combination with other materials. THE SELLER MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE SELLER SHALL HAVE NO LIABILITY FOR CONSEQUENTIAL DAMAGES.



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