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Technical Data Sheet **Barium Sulphide (BaS)**

Barium sulphide is an inorganic compound with the chemical formula BaS. It is a solid, white crystalline powder that is insoluble in water. Barium sulphide can be prepared by reacting barium carbonate or barium oxide with hydrogen sulphide or elemental sulfur.

Here are some general properties of barium sulphide:

Chemical formula: BaS
Molar mass: 169.39 g/mol
Appearance: White crystalline powder
Density: 4.25 g/cm³
Melting point: Approximately 1,100 °C (2,012 °F)
Boiling point: Decomposes at high temperatures
Solubility: Insoluble in water, soluble in acids

Barium sulphide has a wide range of applications, including:

Electronics: It is used in the production of phosphors for cathode ray tubes (CRTs) and other display technologies.

Optical devices: Barium sulphide can be used in scintillation counters, which are devices that detect and measure ionizing radiation.

Manufacturing of other barium compounds: It serves as a precursor for the synthesis of other barium compounds, such as barium carbonate, barium hydroxide, and barium titanate.

Pigments: Barium sulphide can be used as a pigment in ceramics and glass.

Chemical synthesis: It is employed as a reducing agent in various chemical reactions.

Please note that specific technical data sheets for barium sulphide may vary depending on the manufacturer and grade of the compound. If you require detailed technical information or safety data sheets, I would recommend consulting reliable chemical suppliers or manufacturers who can provide you with the specific information you need.