

Technical Data Sheet: Industrial MnO₂ for Marine Grade Protective Paints

Company Name: BTLnewmaterial **Email:** lixifirm@outlook.com **Phone:** +8618273793022 **Website:** manganesesupply.com

1. Product Description

Industrial manganese dioxide (MnO₂) with $\geq 99.2\%$ purity, specifically designed for marine grade protective paints. This MnO₂ grade ensures high oxidative efficiency and stability, suitable for anti-corrosive coatings exposed to harsh marine environments. It is ideal for coating formulators seeking consistent pigment performance in marine paints.

2. Technical Specifications

Parameter	Typical Value
MnO ₂ Purity	$\geq 99.2\%$
Particle Size	2–8 μm
Surface Area	5–12 m^2/g
Moisture	$\leq 0.5\%$
Bulk Density	1.8–2.2 g/cm^3
Crystal Phase	Pyrolusite ($\beta\text{-MnO}_2$)

3. Key Features

- High oxidation efficiency for enhanced anti-corrosive performance.

- Consistent purity ensures reproducible paint formulations.
- Fine particle size improves dispersion and surface coverage.
- Industrial MnO₂ suitable for marine grade protective paints.
- Low moisture content facilitates long-term storage and handling.

4. Applications

- **Marine protective coatings** – prevents steel and metal corrosion in seawater environments.
- **Anti-fouling paints** – enhances coating durability and chemical resistance.
- **Oil-based and epoxy paints** – MnO₂ promotes oxidative crosslinking for faster curing.
- **Industrial primer formulations** – improves adhesion and long-term protection.

5. Packaging & Supply

- Standard 25 kg fiber drum with PE liner; suitable for export.
- Laboratory samples available for testing.
- Bulk supply tailored to industrial production requirements.

6. Customization & Technical Support

- Particle size adjustment and purity customization available.
- Technical consultation for optimizing marine paint formulations.
- Capable of supporting large-scale industrial supply.