

Erbium

Oxide Powder







NS6130-12-000432

APS
20-30 μ m



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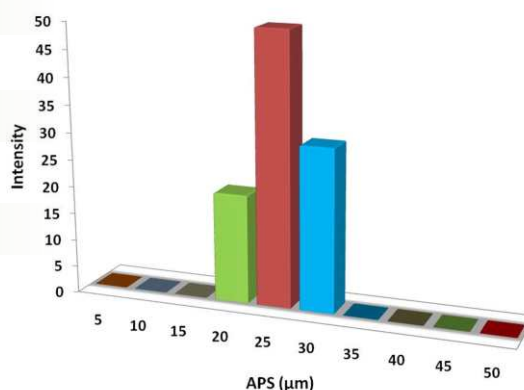
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Erbium Oxide Powder

Erbium oxide possesses excellent electrical, optical and photoluminescence properties. They are graded as irritants, and can cause serious eye irritation. These particles are insoluble in water, and moderately soluble in strong mineral acids. The applications of Er₂O₃ are varied due to their electrical, optical and photoluminescence properties. Nanoscale materials doped with Er⁺³ are of much interest because they have special particle-size-dependent optical and electrical properties. Erbium oxide doped nanoparticle materials can be dispersed in glass or plastic for display purposes, such as display monitors. The spectroscopy of Er⁺³ electronic transitions in host crystals lattices of nanoparticles combined with ultrasonically formed geometries in aqueous solution of carbon nanotubes is of great interest for synthesis of photoluminescence nanoparticles in 'green' chemistry. Erbium oxide is among the most important rare earth metals used in biomedicine. The photoluminescence property of erbium oxide nanoparticles on carbon nanotubes makes them useful in biomedical applications.

Quick Facts

| | | |
|----------|---|---------------------|
| Product | : | Erbium Oxide Powder |
| Stock No | : | NS6130-12-000432 |
| CAS | : | 12061-16-4 |
| Purity | : | >99.99% |
| Color | : | Light pink |
| Form | : | Powder |



Technical Specification

| Formula | APS | Molecular Weight | Melting Point |
|--------------------------------|---------|------------------|---------------|
| Er ₂ O ₃ | 20-30µm | 382.56 g/mol | 2344° C |

Chemical Composition

| Product | Weight Percent (nominal) | |
|---------------------|--------------------------------|-------------|
| | Er ₂ O ₃ | Other Metal |
| Erbium Oxide Powder | >99.99% | 0.1% |

Applications

- Biomedical applications
- Photoluminescence applications
- Optical applications
- Display monitors

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2021CE4589C



192AZGO1274G



2021CE4588M

