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Optical, Physical, and Chemical Properties of Surface Modified Titanium Dioxide Powders

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Abstract: **Titanium Dioxide** (TiO₂) powder is currently used by the U.S. Army as an obscurant fill in the M82 and M106 visible smoke grenades. The U.S. Army previously evaluated a wide range of TiO₂ powders for use in these grenades. However, the chemical and physical properties of these powders were not explored in the context of grenade performance. Therefore, an initial study was undertaken to characterize the chemical, physical, and optical properties of TiO₂ powders that impact its performance in the M106 grenade. A desired outcome of the study is to incorporate the requisite characteristics into product specifications, thereby improving the performance of the M106.

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