

Iron oxide titania

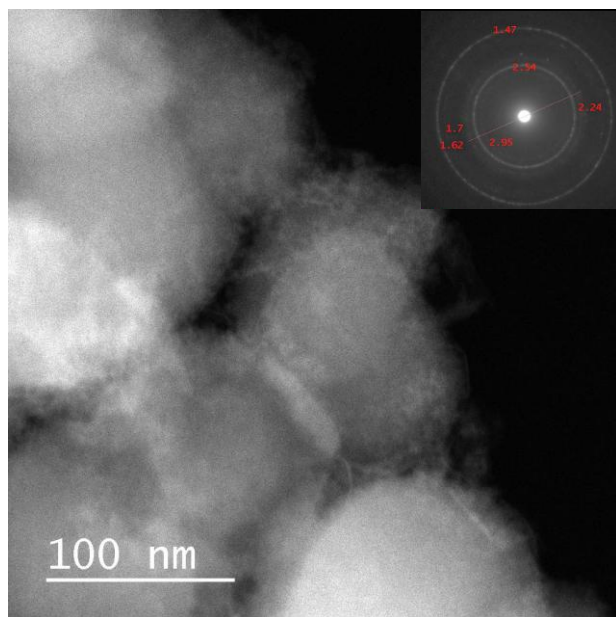
Product code: $\gamma\text{-Fe}_2\text{O}_3/\text{TiO}_2$

Description

Titania (50-100 nm sized anatase TiO_2) decorated with maghemite ($\gamma\text{-Fe}_2\text{O}_3$) nanoparticles

($\gamma\text{-Fe}_2\text{O}_3$) features

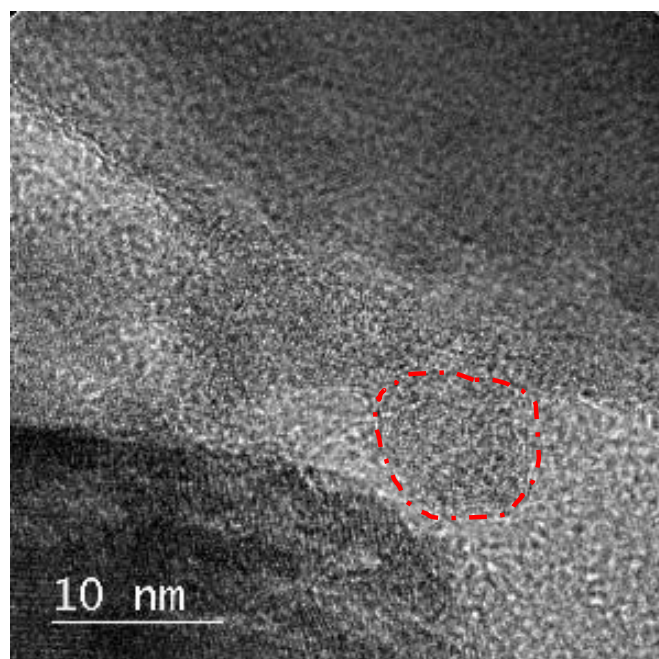
- ✓ Size: ~10 nm
- ✓ Amount: 1-5% w/w
- ✓ Appearance: orange-brown powder



TEM image. Inserted the diffraction pattern

The diffraction pattern has been reported in terms of d-spacing and intensity. It corresponds to iron (III) oxide in gamma phase (maghemite)

Intensity (%)	D-spacing (Å)
28	2.95
100	2.54
20	2.09
10	1.73
25	1.64
42	1.47



High resolution TEM image (red circle selected a single $\gamma\text{-Fe}_2\text{O}_3$ nanoparticle)

Notes :

- ✓ **Storage:** at RT, dry conditions
- ✓ **Stability:** Not available (at least 12 months)
- ✓ **Use precaution:** Do not use for ingestion

This product, although not containing any harmful compound, has to be considered as a chemical agent and for this reason must be handled with care, according to its MSDS.

Applied Chemical Works is not responsible for any not proper use of the product.