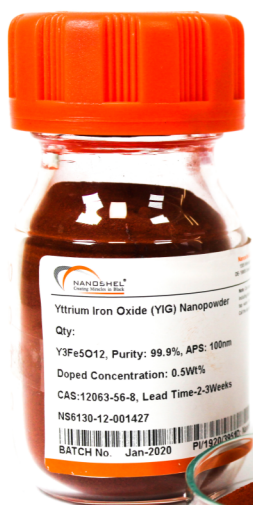


YTTRIUM IRON OXIDE Nanoparticles

Yttrium iron oxide ($\text{Y}_3\text{Fe}_5\text{O}_{12}$) nanopowder are available in ultra high purity passivated form, dispersed, nanofluidic, nanowhiskers and nanocomposites. This material finds applications in manufacture of fuel layer cells, bio nano materials, bio sensors, textiles etc. Yttrium belongs to Block D, Period 5 and Iron to Block D, Period 4 and oxygen to the Block P and 2nd Period in the periodic table. Some of the other names by which this powder is known are yttrium ferrite garnet, Iron yttrium oxide and yttrium iron garnet (YIG). Yttrium iron garnets which are derived from yttrium oxide are used as powerful microwave filters. Yttrium oxide is a vital starting point in inorganic synthesis of compounds. The property of red light emission is used in making fluorescent lamps. They are also used as additives in the coatings used in high-temperature applications, paints and plastics for guarding against UV degradation and also in making permanent magnets.



Quick Facts

Product	:	Yttrium Iron Oxide Nanoparticles
Stock No	:	NS6130-12-001427
CAS	:	12253-70-2
Form	:	Powder
Purity	:	99.9%
APS	:	100nm

Technical Specification

Molecular Formula	:	$\text{Y}_3\text{Fe}_5\text{O}_{12}$
Molecular Weight	:	737.94 g/mol
Density	:	6.95 g/cm ³
Melting Point	:	5.11g/cm ³

Applications

- ✓ Polymers, textiles
- ✓ Fuel cell layers.
- ✓ Composites and solar energy materials,
- ✓ Bio nano materials and bio sensors

APS
100nm

Follow us:



| www.nanoshel.com | sales@nanoshel.com



NS6130-12-001427

ISO 9001:2015
CERTIFIED COMPANY



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

INTELLIGENT MATERIALS PVT LTD

Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911