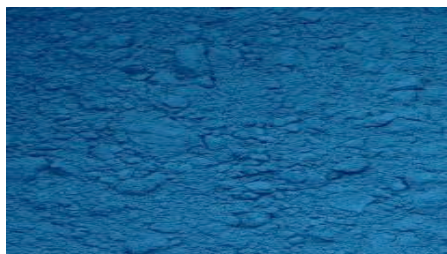


Magneli Materials Data Sheet

Stabilized Magneli Phase Titanium Oxide
Electrically Conductive Ceramic Powder



- **Blue Black electrically conductive powder**
Produced by proprietary process
- **High Ti407 Content**
- **Structurally Stabilized Shear Planes**
- **High Resistance to oxidation and corrosion in acid and base solutions**

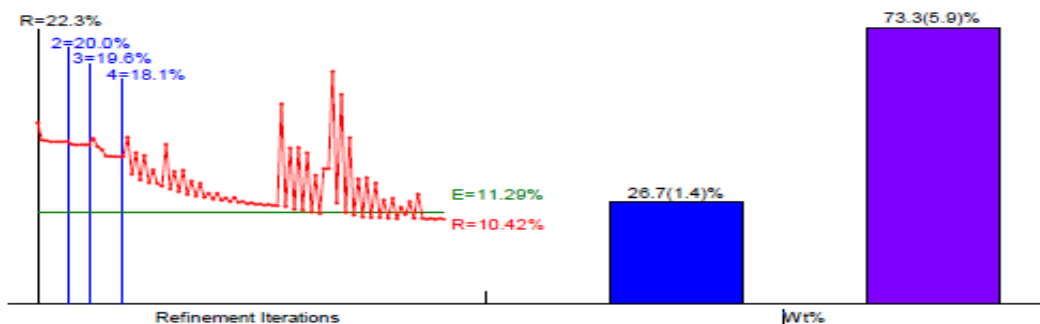
Physical Characteristics

Stabilized Magneli Phase Material	Material Number N82
Appearance	Blue Black Nano Grade Powder
Mean particle size (nm)	50

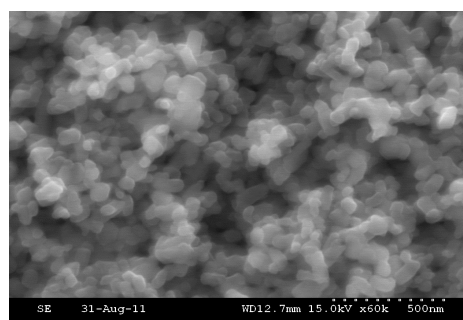
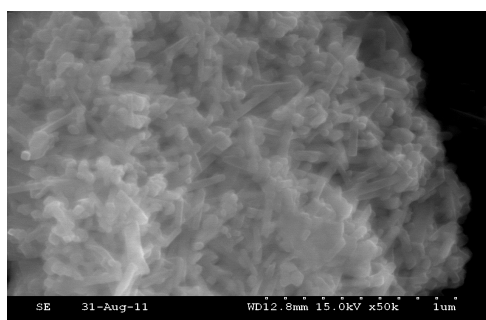
Composition (XRD)

2 Phase(s)	From	I/Ic	Wt%	#L	PS*
■ Potassium Titanium Oxide (1.3/8/16) - K1.28 Ti... FIZ#203090	FIZ#203090	1.76(0%)	26.7 (1.4)	66	1.0
■ Ditanium(III) Ditanium Oxide - Ti4 O7	FIZ#48129	0.93(0%)	73.3 (5.9)	1412	1.0

NOTE: Fitting Halted at Iteration 96, Round 4: R=20.66% (E=11.29%, P=255, EPS=0.5). *Particle Size for Brindley Corre



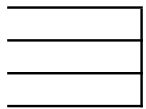
Scanning Electron Micrographs



The information disclosed in this data sheet is provided as an illustration of the properties of Stabilized Magneli Phase Titanium Oxide and should not be construed as a guarantee of the suitability of the material for any particular application.

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