Super Titania™

Ultra-fine-particle high-purity titanium oxide

revision date: 24th April. 2020

SUMMARY

Super Titania™ G, F series are ultra-fine-particle high-purity titanium oxide, manufactured from titanium tetrachloride by our original vapor phase oxidation method.

Highly advanced process controlling technology and various non-metal materials are applied to this method. Consequently, Super Titania™ has superior properties as featured below, and is available widely as material for electronic parts, fillers, and for many other uses.

FEATURES

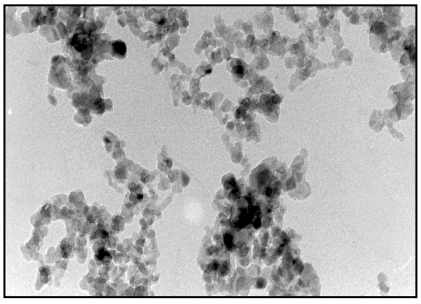
1. Uniform and fine primary particles with sharp particle distribution.
2. Extremely small amount of metal impurities.
3. Good dispersibility.
4. High crystallinity.

【Typical analysis of small amount of impurities (mass ppm)】

G-1 grade

Na<5 K<20 Mn<2 Cu<3

Nb<25 Pb<5 Mg<0.5 (All at non-detected levels)



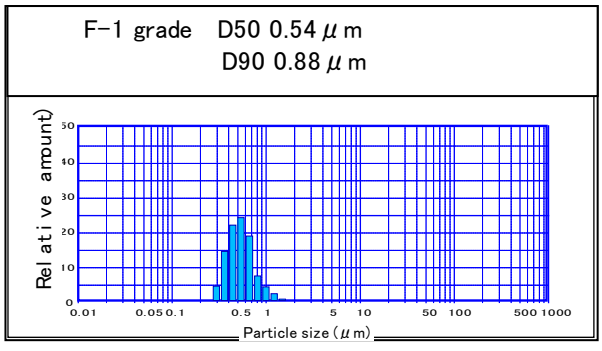
TEM image of F-6 (×200,000)

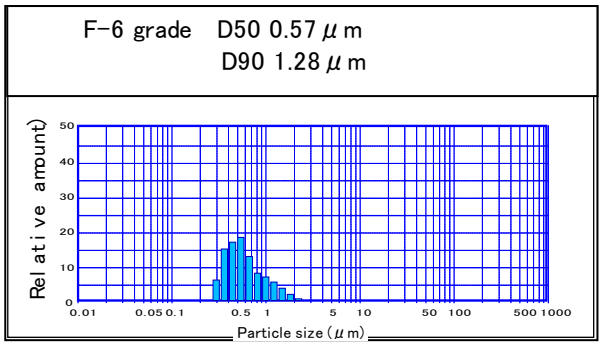
TYPICAL PROPERTIES

Grade	F-1	F-2	F-4A	F-6A
Specific surface area(㎡/g)	15-25	25-35	35-60	85-110
Rutile content(%)	≦50	≦40	≦20	≦10
Primary particle size(nm)	c.a.90	c.a.60	c.a.30	c.a.15

(NOTES)The morphology of the rest is anatase.

PARTICLE SIZE DISTRIBUTION (reference data)





Notice ;Make sure to read the **SDS** of this material before handling. **For industrial use only.** These products contain nanomaterials based on the criteria of Showa Denko. The contents of this catalog are subject to changes with no prior notice. Above are typical data and do not indicate guarantee value.

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