Local Insight, Global Impact

# Acicular $TIO_2$ – FTL SERIES

*Acicular/Columnar-type Titanium dioxide*

## *FTL series*

***FTL series*** **are rutile acicular or columnar type of Titanium dioxide, which is commercially produced only by ISK. Utilizing their unique shape and the characteristic which titanium oxide has, *FTL series* are used for reinforcing materials, cosmetics, a toner, etc.**

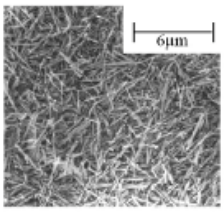
### *Basic characteristics*

| | | FTL-100 | FTL-110 | FTL-200 | FTL-300 | FTL-400*2) |
|---|---|---|---|---|---|---|
| Crystal form | | Rutile | Rutile | Rutile | Rutile | Rutile |
| Primary particle size*1 (μm) | Fiber length | 1.7 | | 2.9 | 5.2 | 10.5 |
| | Fiber diameter | 0.13 | | 0.21 | 0.27 | 0.50 |
| Surface treatment | | — | $Al(OH)_3$ | — | — | — |
| Specific surface area ($m^2/g$) | | 10-20 | 10-20 | 5-15 | 3-7 | (2.4) |
| Oil absorption (g/100g) | | 35-60 | 30-50 | 35-60 | 35-60 | (16) |
| pH | | 5.5-8.0 | 6.5-8.0 | 5.5-8.0 | 5.5-8.0 | (7.2) |

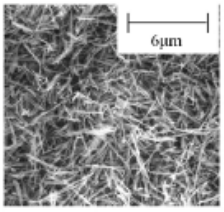
* 1) Example of volume surface mean diameter measured with image * 2) FTL-400 is trial product

### *SEM Image*

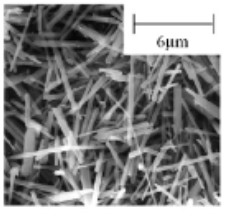
FTL-100



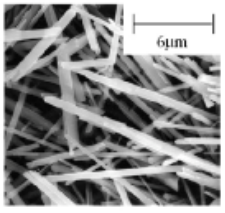

FTL-200




FTL-300




FTL-400






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