Ti-Pure™

TS-6200 Titanium Dioxide

For High Performance Exterior Coating Formulations

The High Performance Exterior Advantage…

Ti-Pure™ TS-6200 Titanium Dioxide is specifically designed for applications demanding high initial haze-free gloss and a high degree of gloss and tint retention over the life of the coating.

Chemours™

Ti-Pure™ TS-6200 the High Performance Exterior Advantage

Ti-Pure™ TS-6200 titanium dioxide is specifically designed for applications demanding high initial haze-free gloss and a high degree of gloss and tint retention over the life of the coating. (see **Figure 1 and 2**) Ti-Pure™ TS-6200 titanium dioxide delivers a unique combination of:

- Durability
- Gloss
- High Hiding Power
- Superior Dispersion

Unique Combination of Exterior Weathering and Initial Gloss Performance

Ti-Pure™ TS-6200 provides exterior protection by balancing weathering and gloss (see **Figure 3**). Ti-Pure™ TS-6200 consistently outperforms competitive super durable pigments in gloss and tint retention in a wide range of applications.

Figure 4 displays the chalk resistance of Ti-Pure™ TS-6200 relative to traditional durable and universal grades of titanium dioxide.

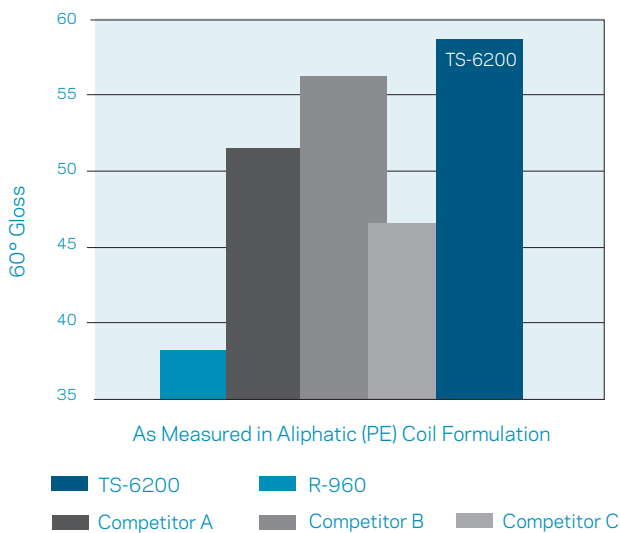**Figure 1:** Ti-Pure™ TS-6200 Exhibits High Initial Gloss

As Measured in Aliphatic (PE) Coil Formulation

- TS-6200
- R-960
- Competitor A
- Competitor B
- Competitor C

Figure 2: Ti-Pure™ TS-6200 Delivers Maximum Durability as measured by Gloss Retention

As Measured in Polyester Powder Coating Formulation

- TS-6200
- R-960
- Competitor A
- Competitor B
- Competitor C
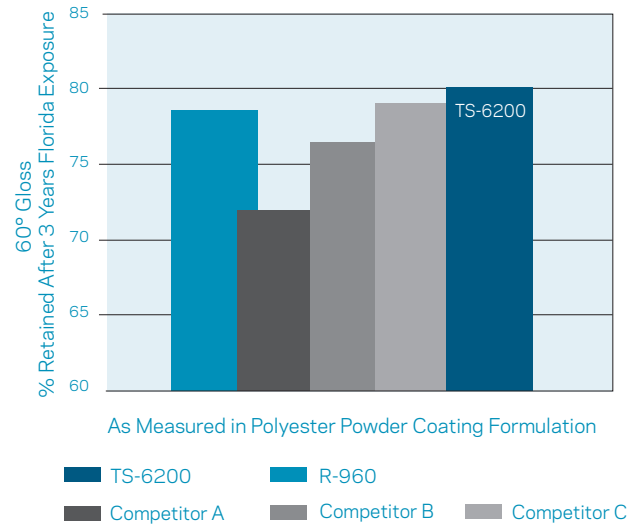
Figure 3: Ti-Pure™ TS-6200 has Outstanding Performance — Balancing Gloss and Weathering

- TS-6200
- R-960
- R-960
- Competitor Super Durable
- Competitor Universal
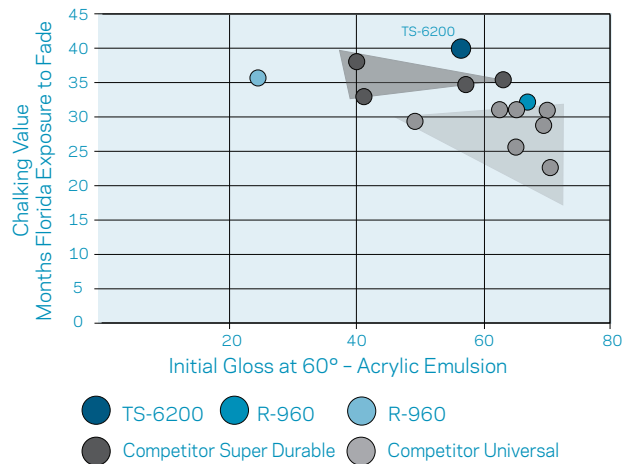
Figure 4: Ti-Pure™ TS-6200—Superior Color Retention Versus Universal and Traditional Durable Pigments

Universal	Traditional Durable	TS-6200
33 Months Exterior Exposure	35 Months Exterior Exposure	42 Months Exterior Exposure
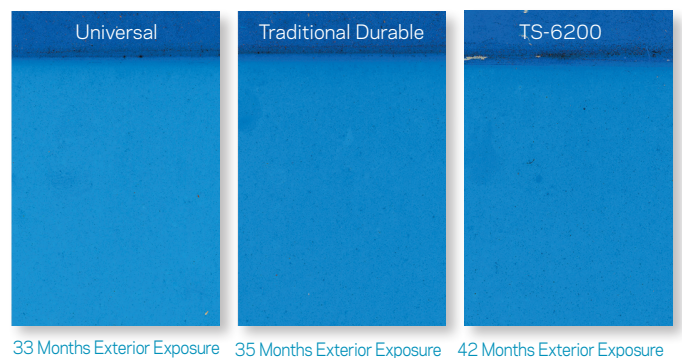
Figure 5: Ti-Pure™ TS-6200 Disperses Easily — Saving Time and Energy

Legend:
- Competitor Universal
- Competitor Super Durable
- R-960
- TS-6200
- ① Best
- ② Better
- ③ Good

Y-axis: Undispersed Particle Count (0–45)

X-axis (Dispersion Condition Sequence*):
- 1 min at 2.6 m/s
- 3 min at 2.6 m/s
- 5 min at 7.0 m/s
- 5 min at 12 m/s

Relative Dispersion Energy (Measured): $1/3$, 1, 5, 10

*time at tip speed
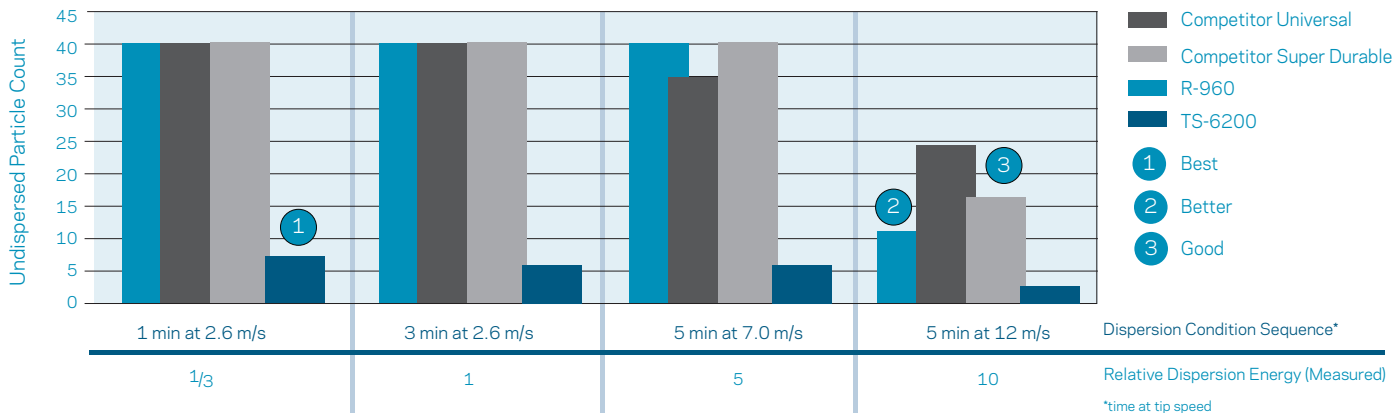
Superior Dispersion

Ti-Pure™ TS-6200 disperses easily; saving time and energy. **Figure 5** demonstrates the alkyd ease of dispersion advantage of TS-6200 relative to competitive universal and super durable grades. It also highlights the opportunity for productivity improvements and energy savings from using Ti-Pure™ TS-6200.

As alkyd dispersion time and intensity are increased the dispersion condition is evaluated using a special hegman gauge.

The results show a wide variation in how different TiO_2 grades disperse following the various grind conditions. While most pigments require the highest grind intensity (5 minutes at 12 m/s) to achieve clean dispersion, Ti-Pure™ TS-6200 achieves a clean dispersion with much less time and energy.

Dispersion condition is analyzed using the Chemours™ Dispersion Optical Counter (DOC) which takes a digital image of the drawdown and uses proprietary protocol to measure the number of undispersed particles (see **Figure 6**).

High Hiding Power

Ti-Pure™ TS-6200 provides equivalent hiding at lower film thickness as compared to traditional durable and universal pigments. **Figure 7** demonstrates Ti-Pure™ TS-6200 hiding performance in a powder coating.
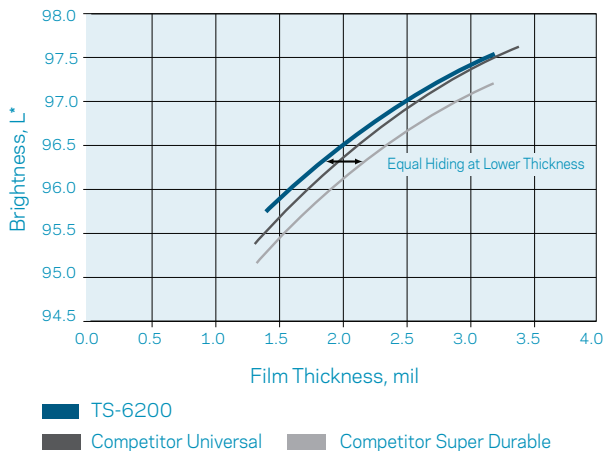
Figure 6: Ti-Pure™ TS-6200 Displays Better Dispersion

Traditional Durable | TS-6200
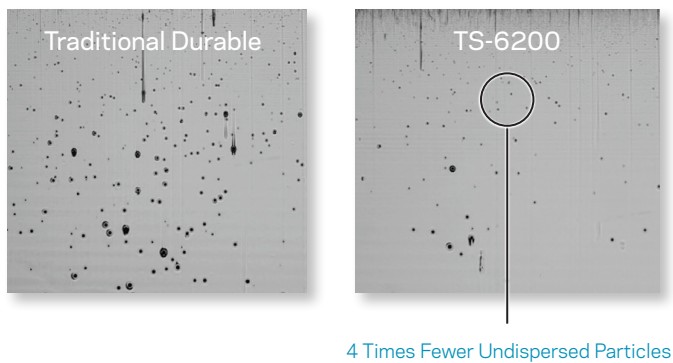
4 Times Fewer Undispersed Particles

Pigments Dispersed 15 min with a tip speed of 5.3 m/s by HSD 2" Cowles Blade,
5.3 m/s for 15 minutes 69.5% TiO_2 Solids as measured in a polyester coil formulation
Illustrates dispersion differences as detected by the Chemours™ Optical Counter

Figure 7: Ti-Pure™ TS-6200—Hiding Advantage

Y-axis: Brightness, L^* (94.5–98.0)
X-axis: Film Thickness, mil (0.0–4.0)

Equal Hiding at Lower Thickness

Legend:
- TS-6200
- Competitor Universal
- Competitor Super Durable

The High Performance Exterior Advantage

Ti-Pure™ TS-6200 advantage for discerning customers seeking a long-lasting coating that stands up to the test of time.

Figure 8: Ti-Pure™ TS-6200 — Exterior Advantage
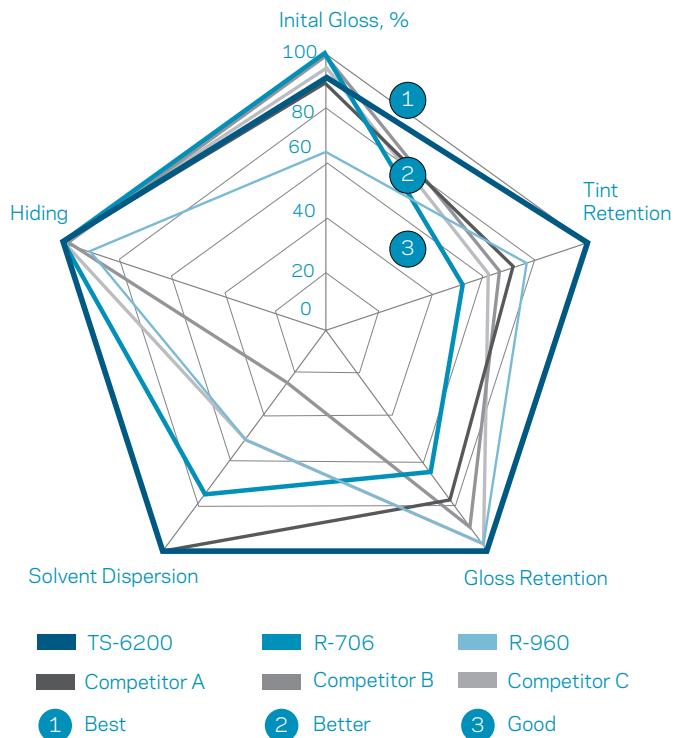
Ti-Pure™ TS-6200 — Request Your Sample Today!

Ti-Pure™ TS-6200 titanium dioxide —the easy choice for your industrial and architectural applications. Available in 25 kg bags and 1 metric (1000 kg) tonne flexible intermediate bulk containers. If you need additional information or would like to request a sample, please visit our website or contact your local representative.

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