

金红石型钛白粉FR-767

“方圆”牌FR-767是采用硫酸法加工生产的高档通用型金红石型钛白粉。该产品集合了我司在水解、盐处理、煅烧控制、无机处理、有机处理及产品应用等方面的专利技术和创新研究成果，采用先进的生产设备和DCS控制系统，让产品应用性能达到最佳。

★粒径

通过水解、煅烧工艺的精准设计，使FR-767产品的粒径小，分布集中、均匀，展现出明显蓝色底相，高光泽度、高遮盖力和着色力。

★表面处理

采用先进的锆铝无机包膜处理技术，使FR-767产品具有最佳的光学性能，展现出高光泽和高耐候性。特殊的有机表面处理技术，极大地提高了产品的分散性能。

★采用标准

FR767符合以下标准：
ISO591类型 R2；
CAS NO.13463-67-7；
EINECS NO.236-675-5；
颜色索引NO.77891，白色颜料6

★适用范围：

广泛适用于室内、外墙建筑涂料、工业涂料、粉末涂料、家具漆、油墨体系；还可以用于色母粒、型材、管材等塑料体系和橡胶体系；

★应用性能

- ①蓝色底相：粒径小且均匀，可有效散射蓝光，产品具有明显的蓝色底相和优良的白度，具有超高视觉美感。
- ②高耐候性：颗粒包覆完整，致密的锆铝包膜表面处理，产品具有较高的耐候性能。
- ③高分散性：特殊的无机和有机表面处理，防止了粒子间的聚集，产品具有优异的分散性能。
- ④低吸油量：使产品在实际应用中润湿性好、易于分散，有利于节约成本。

★通过SGS以下测试：

ROHS2.0、EN71-3、GB 9685-2016；

*FR-767技术指标

项 目	指 标
TiO ₂ 的质量分数%	≥ 93.0
颜色(与标样比)	不低于
金红石含量的质量分数%	≥ 98.0
消色力(雷诺指数)	≥ 1800
水悬乳液pH值	6.5~8.5
吸油量g/100g	≤ 21
水萃取液电阻率Ω·m	≥ 80
筛余物(45μm筛孔)质量分数%	≤ 0.05
分散性(黑格曼数)%	≥ 5.75
105℃挥发物的质量分数%	≤ 0.80
水溶物的质量分数%	≤ 0.50
干粉颜色	L* 值 ≥ 98.0
	b* 值 ≤ 2.4

Rutile titanium dioxide FR-767

FR-767 Rutile type Titanium Dioxide is an excellent general-purpose grade rutile type titanium dioxide produced by “Fangyuan Titanium Dioxide” with sulfuric acid process. This product integrates our patented technology and innovative research results in hydrolysis, salt treatment, calcinations control, inorganic coating, organic treatment, and product application etc. using advanced production equipment and DCS control system to achieve the best product application performance.

★Particle size

Through the precise design of hydrolysis and calcination process, the FR-767 products own a small particle size, concentrated and uniform distribution, showing an obvious blue undertone, high luster, high hiding power and coloring strength.

★Surface treatment

The advanced zirconium aluminum inorganic treatment technology provides the best optical performance and shows high luster and weather resistance. Special organic surface treatment technology greatly improves the dispersibility of the product.

★Standards adopted

FR-767 meets the following standards:
R2 grade of ISO591;
CAS NO.13463-67-7;
EINECS NO.236-675-5;
Color index NO.77891, white pigment 6

★Applicable scope

Indoor and outdoor coatings, industrial paint, furniture paint, ink system; it can also be used in powder coating, profiles, pipe materials and other plastic system and rubber system;

★Application characteristics

- ①Blue undertone tint: the particle size is small and homogeneous, which can scatter blue light more effectively than big particle size, therefore, the product has blue undertone tint and excellent whiteness Content, with an ultra-high visual beauty.
- ②High weather resistance: Zirconium compound has been utilized for surface treatment which enables the product to own higher weather resistance.
- ③Excellent dispersibility: special inorganic and organic surface treatment lower coalescence between TiO₂ particles, which causes the product to show excellent dispersibility in the application systems.
- ④Lower oil absorption: the low oil absorption makes Titanium Dioxide own good wettability and easily-dispersed in application systems, which is beneficial to cost.

★ Passed the following SGS tests:

ROHS2.0、EN71-3、GB 9685-2016；

*Specification FR-767

Item	Specification
Mass fraction of TiO ₂ /%	≥ 93.0
Whiteness (compared with standard sample)	not less than
Rutile content %	≥ 98.0
Tint reducing power (Reynolds number)	≥ 1800
PH value of aqueous suspension	6.5~8.5
Oil absorption g/100g	≤ 21
Electrical resistivity Ω.m	≥ 80
Mass fraction of screenings (45μm)/%	≤ 0.05
Dispersibility (Hickmann number)	≥ 5.75
Mass fraction of volatiles at 105°C %	≤ 0.80
Mass fraction of water soluble%	≤ 0.50
COLOR	L* ≥ 98.0
	b* ≤ 2.4