

## TECHNICAL DATA SHEET

### DESCRIPTION

Ruichem RC-691 is a rutile titanium dioxide pigment, produced by sulfate process. It is designed specifically for high grade of plastics and rubbers.

### KEY FEATURES

- Excellent processing properties
- High opacity, good whiteness
- Ease of wet and dispersion
- Excellent durability, High heat resistance

### APPLICATIONS

Coatings			
Water-based coatings	●	Powder coatings	★
Solvent-based coatings	●	Anticorrosive paints	--
Automotive coatings	--	Wood coatings	●
Coil coatings	--	Can coatings	●
Plastics		Others	
PVC interior	★	Paper-Coated	●
PVC exterior	★	Paper-fillers	●
PE/PP masterbatches	★	Ink-Gravure	●
PS/ABS	★	Ink-Flexo	●
Engineering plastics	★	Ink-Metal deco	●
★ Highly Recommended		● Recommended      -- Not Recommended	

### TYPICAL PROPERTIES

TiO<sub>2</sub> content: ≥93.0%

Inorganic coating: Zr, Si, Al

Organic treatment: Yes

Specific gravity, g/cm<sup>3</sup>: 3.9

Average particle size, μm: 0.26~0.30

Oil absorption, g/100g: 17~21

pH value: 6.0~8.0

Classification---ISO591-1:2000(E):R2

Color CIE L\*(Oil system): ≥95.0

Tinctorial power (Reynold's number): ≥1900

### NOTE

The above information is provided as guidelines only. It is important that the customer evaluate any product in their own resin system to determine suitability.

## SPECIFICATION

### GENERAL INFORMATION

Product Name:Rutile Titanium Dioxide Pigment

Color Index:C.I.Pigment White 6 ( C.I.77891)

Product Code:RC-919

Application System:Coatings, Plastics, Papers, inks, etc.

### PROPERTIES

Test Items	Specification	Test Method
TiO <sub>2</sub> content (m/m)%:	≥93.0%	ISO591-1
Rutile crystal content (m/m)% :	≥98%	Ruichem method
Shade (Compared with standard)		Ruichem method
ΔL(CIELAB, D65/10°):	-0.30~0.30	
Δa(CIELAB, D65/10°):	-0.30~0.30	
Δb(CIELAB, D65/10°):	-0.40~0.40	
ΔE(CIELAB, D65/10°):	0.00~0.50	
Strength (Compared with standard):	95%~105%	Ruichem method
ΔCR (Opacity, Compared with standard)	-1.00~1.00	Ruichem method
Moisture (105°C):	≤0.5%	ISO787-2
Oil absorption (g/100g):	17~21	ISO787-5
Specific resistivity(Ω.m):	≥80	ISO787-14
PH value of aqueous suspension:	6.5~8.0	ISO787-9
Residue on sieve of 45um:	≤0.05%	ISO787-18