

# Automotive Ferrius<sup>®</sup>

## Pearlescent Pigments



The world's leader in  
quality effect pigment technology



# Automotive Ferrius®

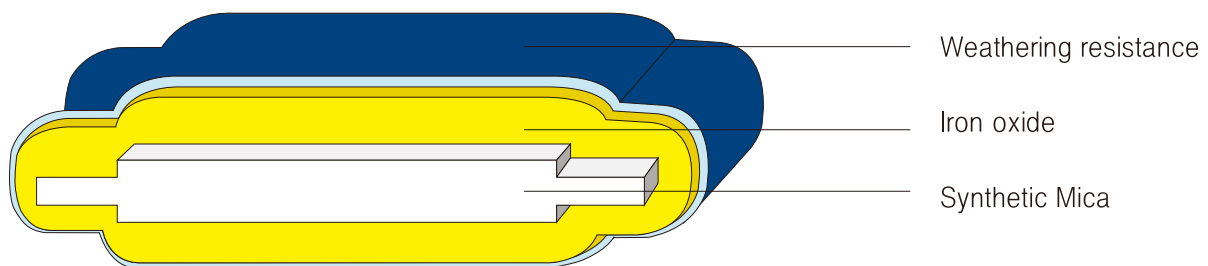
## Pearlescent Pigments

Automotive Ferrius® series are synthetic mica based pearlescent pigments coated with  $\text{Fe}_2\text{O}_3$  for exterior use. Automotive Ferrius® series show real metal color and gloss that we've never seen before.

Although, Automotive Ferrius® series just contain the synthetic mica and iron oxide like existing metallic effect pearl pigments, it can express more amazing effect than existing metallic pearlescent pigments by CQV's own unique technology.

When Automotive Ferrius® series come to you, you can feel real metal and luster effect.

By using Automotive Ferrius series, you can achieve more various and unique products having excellent color and luster.



### Special Features

Excellent Real Metal pearlescent Pigments.  
Super Metal Sparkling and Chroma effect  
Adequate PSD for coating.  
Easy to use.  
Good stability.

### Dispersion

Suitable for both of W/B,S/B

### Application

Automotive Coating  
Automotive refinish paints  
Exterior Coating

Synthetic Mica based pearlescent pigments  
Coated with only Iron Oxide as colorant.  
Surface treated for weathering resistance.  
Surface treated for dispersion in W/B, S/B.



Excellent Real Metal Pearlescent Pigments.  
Super Metal Sparkling and Chroma effect  
All components are pre-registered for REACH regulation.  
Conforms RoHs regulation.  
No contain the health and environmental hazard materials.

# Automotive Ferrius<sup>®</sup>

## Pearlescent Pigments



**AF-620K-OP**

Automotive Ferrius<sup>®</sup> Splendor Bronze  
Size( $\mu\text{m}$ ) 7-37



**AF-620K-SP**

Automotive Ferrius<sup>®</sup> Splendor Bronze  
Size( $\mu\text{m}$ ) 7-37



**AF-630K-OP**

Automotive Ferrius<sup>®</sup> Splendor Orange  
Size( $\mu\text{m}$ ) 7-37



**AF-630K-SP**

Automotive Ferrius<sup>®</sup> Splendor Orange  
Size( $\mu\text{m}$ ) 7-37



**AF-640K-OP**

Automotive Ferrius<sup>®</sup> Splendor Copper  
Size( $\mu\text{m}$ ) 7-37



**AF-640K-SP**

Automotive Ferrius<sup>®</sup> Splendor Copper  
Size( $\mu\text{m}$ ) 7-37



**AF-660K-OP**

Automotive Ferrius<sup>®</sup> Splendor Russet  
Size( $\mu\text{m}$ ) 7-37



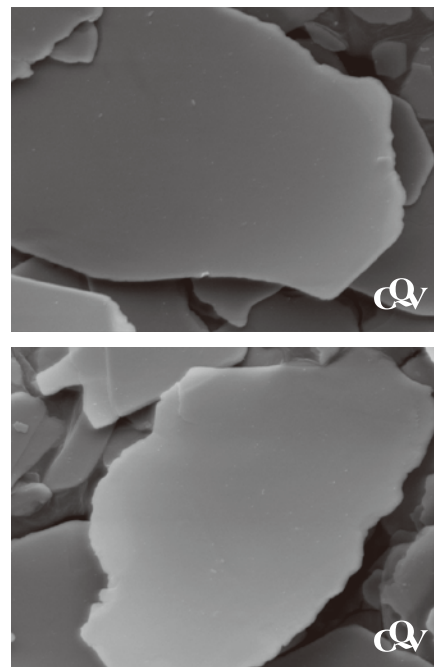
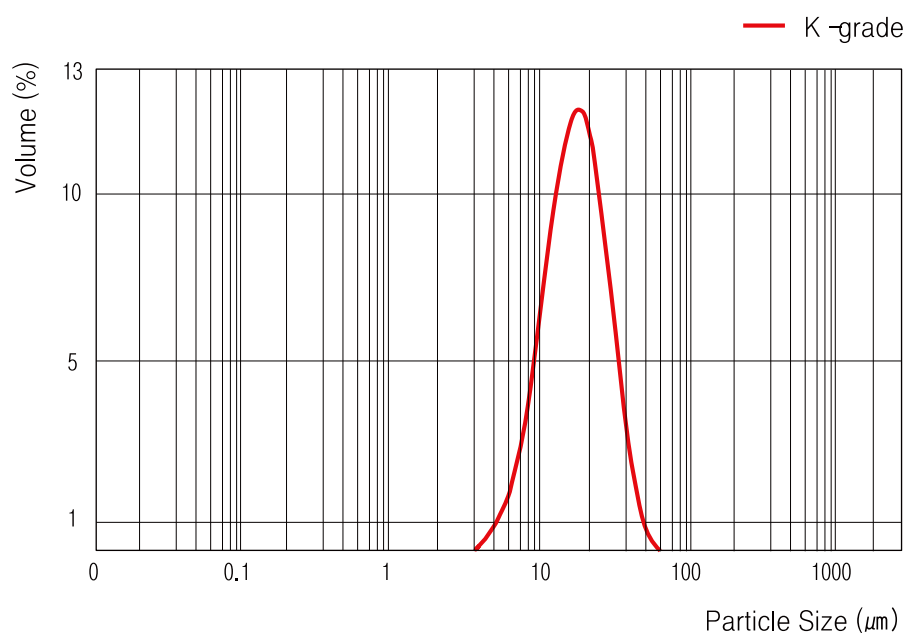
**AF-660K-SP**

Automotive Ferrius<sup>®</sup> Splendor Russet  
Size( $\mu\text{m}$ ) 7-37

# Automotive Ferrius® Pearlescent Pigments

## Technical data

Code	Product Name	Particle Size(μm) (D10 - D90)	Particle Size(μm) (D50)	pH (10% Sol.)	Composition		
					KMg3AlSi3O10F2	Fe2O3	Silane
AF-620K-OP	Automotive Ferrius® Splendor Bronze	7 - 37	16 - 22	4 - 9	0	0	0
AF-620K-SP	Automotive Ferrius® Splendor Bronze	7 - 37	16 - 22	4 - 9	0	0	0
AF-630K-OP	Automotive Ferrius® Splendor Orange	7 - 37	16 - 22	4 - 9	0	0	0
AF-630K-SP	Automotive Ferrius® Splendor Orange	7 - 37	16 - 22	4 - 9	0	0	0
AF-640K-OP	Automotive Ferrius® Splendor Copper	7 - 37	16 - 22	4 - 9	0	0	0
AF-640K-SP	Automotive Ferrius® Splendor Copper	7 - 37	16 - 22	4 - 9	0	0	0
AF-660K-OP	Automotive Ferrius® Splendor Russet	7 - 37	16 - 22	4 - 9	0	0	0
AF-660K-SP	Automotive Ferrius® Splendor Russet	7 - 37	16 - 22	4 - 9	0	0	0

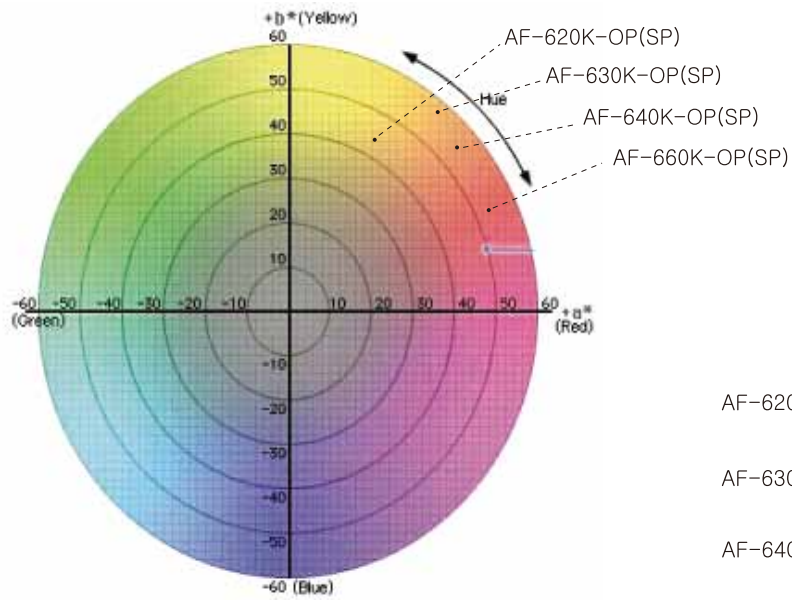


Particle size distribution measured by laser diffraction  
Instrument: Malvern Mastersizer 2000



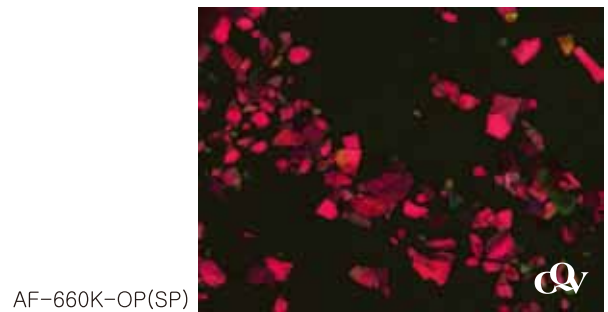
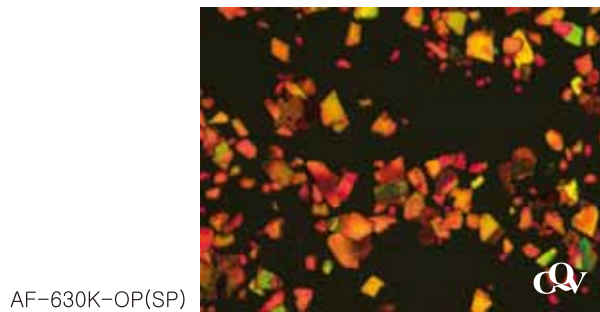
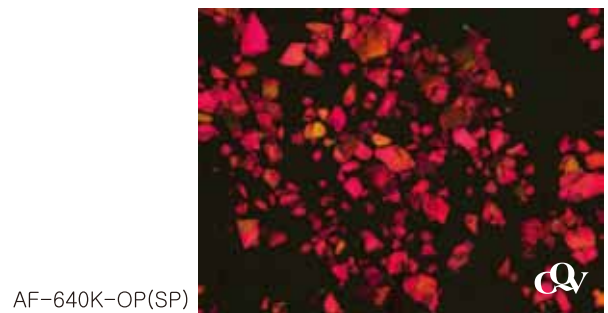
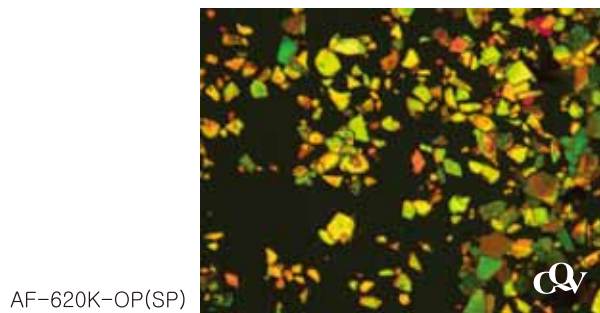
# Application data

Weathering Test Item	Test system	Q-UV 1000hr Test (ASTM D4587 Cycle Number 1)						
		Visual Assessment	glossmeter PG-1M Ver 1.66			color-difference meter CM-512m3		
			Gray Scale (D-65)	persistency rate (%)			dE*ab(D65) <math>\angle 10^\circ</math>	
2-coat OEM thermosetting paint			20 °	60 °	85 °	25 °	45 °	75 °
AF-620K-OP(SP)	PC 1.5 %	5	104%	100%	105%	0.32	0.31	0.23
AF-630K-OP(SP)	PC 1.5 %	5	96%	100%	98%	0.09	0.25	0.20
AF-640K-OP(SP)	PC 1.5 %	5	101%	101%	101%	0.30	0.31	0.24
AF-660K-OP(SP)	PC 1.5 %	5	99%	100%	98%	0.21	0.31	0.30



	L*	a*	b*
AF-620K-OP(SP)	59.07	16.11	39.09
AF-630K-OP(SP)	58.61	30.59	46.91
AF-640K-OP(SP)	50.02	38.18	37.07
AF-660K-OP(SP)	50.94	41.82	24.90

# Automotive Ferrius® Pearlescent Pigments The Microphotographic



# CQV GLOBAL NETWORK

“Global Supplier of High Quality Effect Pigment Technologies.”



Creation of Quality Value

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