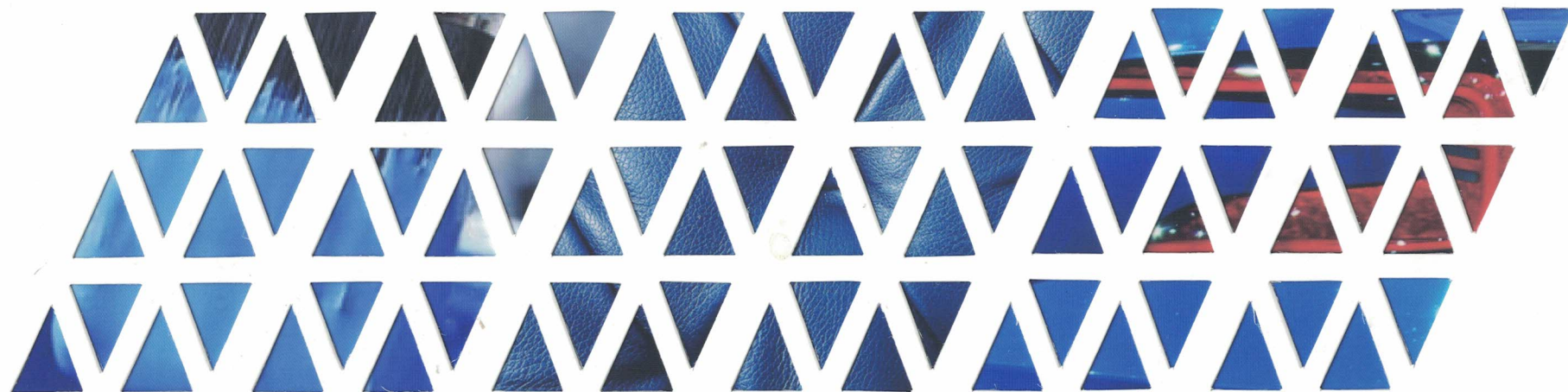




ChesCrystal[®]

Synthetic Mica Based Pearlescent Pigments
for Industria Applications



About Chesir

Chesir is a leading international manufacturer of pearlescent pigments for the paints and coatings industry, the printing industry, the plastics and the cosmetics industry. Provide high quality products, product development, formulating support and the technical training services, create high added value for customers.

Established in 2011 and been listed on NEEQ in 2015 (stock code: 832080), now Chesir is one of the leading company of global market and technology in the pearlescent pigments industry. With the annual capacity of 10,000mt pearlescent pigments and 5,000mt of synthetic mica, also an implemented and certified quality management based on the ISO9001, MES (Manufacturing Execution System) and SPC (Statistical Process Control), ensures that Chesir pearlescent pigments among the best in the market.

Focus on innovation and sustainability, Chesir applied 5 patents on the processing technology of pearlescent pigments, bring fascinating colors to our customers and reduce the energy consumption in the mean time. With comprehensive investments in research and development, Chesir is constantly extending it's leading position as an innovator and reliable partner.



ChesCrystal

Synthetic Mica Based Pearlescent Pigments is made from synthetic mica coated with special metal oxide. Compared with natural mica, it is whiter, brighter, purer, higher temperature resistant and lower heavy metal content, and is widely applied to paints, plastics, ink prints, wallpaper, artificial leather, powder coatings, etc..

Resulting from reflecte, refracted and transmitted light patterns developed at the multiple interfaces between the layers, ChesCrystal pearlescent pigments provide unsurpassed performance in brightness and color from white to earth tone effects. Reflective effects from mat softness to glittering reflection can be obtained by a choice of different particle size. The total range contains over 120 products.

The product range includes the following types:

- Crystal silver white pearlescent pigments;
- Crystal interference pearlescent pigments;
- Crystal gold pearlescent pigments;
- Crystal metallic pearlescent pigments;
- High performance pearlescent pigments;

ChesCrystal pearlescent pigments are able to create an infinite range of visual effects that capture your eye and give unrivalled elegance to any finished product.

	Particle Size Distribution Approx.(µm)	Composition (%)			
		Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Silver White Pigments					
QC6108	1 - 10	58 - 70	30 - 42	-	< 1
QC6110	1 - 15	58 - 68	32 - 42	-	< 1
QC6120	5 - 25	62 - 70	30 - 38	-	< 1
QC6000	10 - 30	70 - 80	20 - 30	-	< 1
QC6200	10 - 40	67 - 77	23 - 33	-	< 1
QC6300	10 - 60	73 - 82	18 - 28	-	< 1
QC6150	20 - 80	80 - 88	12 - 20	-	< 1
QC6400	25 - 100	78 - 88	12 - 22	-	< 1
QC6161	30 - 120	83 - 93	7 - 17	-	< 1
QC6500	40 - 160	85 - 95	5 - 15	-	< 1
QC6600	50 - 250	86 - 96	4 - 14	-	< 1
QC6183	60 - 300	87 - 97	3 - 13	-	< 1
QC6800	100 - 700	90 - 96	4 - 10	-	< 1
QC6900	100 - 1000	91 - 96	4 - 9	-	< 1
QC6199	150 - 2000	92 - 97	3 - 8	-	< 1



QC6108 1 - 10 μm



QC6110 1 - 15 μm



QC6120 5 - 25 μm



QC6000 10 - 30 μm



QC6200 10 - 40 μm



QC6300 10 - 60 μm



QC6150 20 - 80 μm



QC6400 25 - 100 μm



QC6161 30 - 120 μm



QC6500 40 - 160 μm



QC6600 50 - 250 μm



QC6183 60 - 300 μm



QC6800 100 - 700 μm



QC6900 100 - 1000 μm



QC6199 150 - 2000 μm

	Particle Size Distribution Approx.(µm)	Composition (%) Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Interference Gold Pigments					
QC6L05	1 - 10	42 - 52	48 - 58	-	< 1
QC6M05	1 - 15	44 - 54	46 - 56	-	< 1
QC6X05	5 - 25	42 - 52	48 - 58	-	< 1
QC6005	10 - 30	53 - 63	37 - 47	-	< 1
QC6205	10 - 40	48 - 58	42 - 52	-	< 1
QC6305	10 - 60	53 - 63	37 - 47	-	< 1
QC6405	25 - 100	67 - 77	23 - 33	-	< 1
QC6505	40 - 160	73 - 83	17 - 27	-	< 1
QC6605	50 - 250	79 - 89	11 - 21	-	< 1
QC6805	100 - 700	86 - 96	4 - 14	-	< 1
Interference Red Pigments					
QC6L15	1 - 10	58 - 68	32 - 42	-	< 1
QC6M15	1 - 15	58 - 68	32 - 42	-	< 1
QC6X15	5 - 25	38 - 48	52 - 62	-	< 1
QC6015	10 - 30	43 - 54	46 - 57	-	< 1
QC6215	10 - 40	45 - 55	45 - 55	-	< 1
QC6315	10 - 60	52 - 62	38 - 48	-	< 1
QC6415	25 - 100	63 - 73	27 - 37	-	< 1
QC6515	40 - 160	69 - 79	21 - 31	-	< 1
QC6815	100 - 700	83 - 93	7 - 17	-	< 1



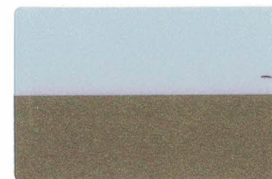
QC6L05 1 - 10 μm



QC6M05 1 - 15 μm



QC6X05 5 - 25 μm



QC6005 10 - 30 μm



QC6205 10 - 40 μm



QC6305 10 - 60 μm



QC6405 25 - 100 μm



QC6505 40 - 160 μm



QC6605 50 - 250 μm



QC6805 100 - 700 μm



QC6L15 1 - 10 μm



QC6M15 1 - 15 μm



QC6X15 5 - 25 μm



QC6015 10 - 30 μm



QC6215 10 - 40 μm



QC6315 10 - 60 μm



QC6415 25 - 100 μm

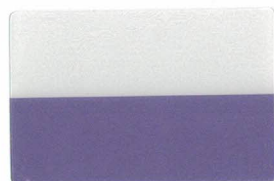


QC6515 40 - 160 μm

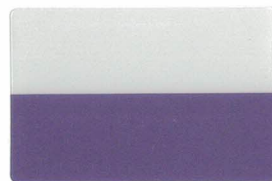


QC6815 100 - 700 μm

	Particle Size Distribution Approx.(µm)	Composition (%) Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Interference Violet Pigments					
QC6L19	1 - 10	33 - 43	57 - 67	-	< 1
QC6M19	1 - 15	35 - 45	55 - 65	-	< 1
QC6X19	5 - 25	35 - 45	55 - 65	-	< 1
QC6019	10 - 30	41 - 51	49 - 59	-	< 1
QC6219	10 - 40	44 - 54	46 - 56	-	< 1
QC6319	10 - 60	44 - 55	45 - 56	-	< 1
QC6419	25 - 100	59 - 69	31 - 41	-	< 1
QC6519	40 - 160	66 - 76	24 - 34	-	< 1
QC6619	50 - 250	73 - 83	17 - 27	-	< 1
QC6819	100 - 700	82 - 92	8 - 18	-	< 1
Interference Blue Pigments					
QC6L25	1 - 10	30 - 40	60 - 70	-	< 1
QC6M25	1 - 15	30 - 40	60 - 70	-	< 1
QC6X25	5 - 25	35 - 46	54 - 64	-	< 1
QC6025	10 - 30	37 - 77	53 - 63	-	< 1
QC6325	10 - 60	45 - 56	44 - 55	-	< 1
QC6425	25 - 100	59 - 69	31 - 41	-	< 1
QC6525	40 - 160	65 - 75	25 - 35	-	< 1
QC6625	50 - 250	73 - 83	17 - 27	-	< 1
QC6825	100 - 700	80 - 90	10 - 20	-	< 1



QC6L19 1 - 10 μm



QC6M19 1 - 15 μm



QC6X19 5 - 25 μm



QC6019 10 - 30 μm



QC6219 10 - 40 μm



QC6319 10 - 60 μm



QC6419 25 - 100 μm



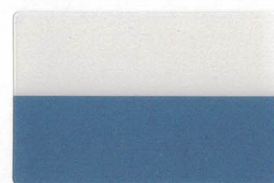
QC6519 40 - 160 μm



QC6619 50 - 250 μm



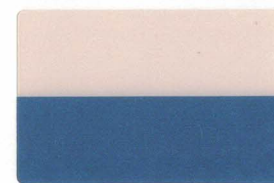
QC6819 100 - 700 μm



QC6L25 1 - 10 μm



QC6M25 1 - 15 μm



QC6X25 5 - 25 μm



QC6025 10 - 30 μm



QC6325 10 - 60 μm



QC6425 25 - 100 μm



QC6525 40 - 160 μm



QC6625 50 - 250 μm

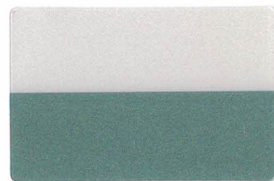


QC6825 100 - 700 μm

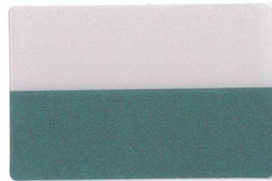
	Particle Size Distribution Approx.(µm)	Composition (%)			
		Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Interference Green Pigments					
QC6L35	1 - 10	28 - 38	62 - 72	-	< 1
QC6M35	1 - 15	38 - 48	52 - 62	-	< 1
QC6X35	5 - 25	31 - 41	59 - 69	-	< 1
QC6035	10 - 30	46 - 56	44 - 54	-	< 1
QC6235	10 - 40	67 - 77	51 - 61	-	< 1
QC6335	10 - 60	37 - 48	52 - 63	-	< 1
QC6435	25 - 100	55 - 65	35 - 45	-	< 1
QC6535	40 - 160	60 - 70	30 - 40	-	< 1
QC6635	50 - 250	59 - 69	31 - 41	-	< 1
QC6835	100 - 700	79 - 89	11 - 21	-	< 1



QC6L35 1 - 10 μm



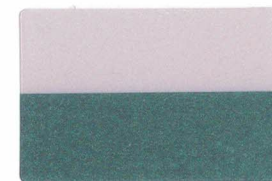
QC6M35 1 - 15 μm



QC6X35 5 - 25 μm



QC6035 10 - 30 μm



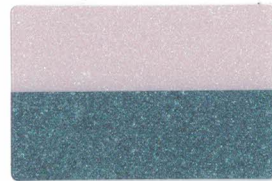
QC6235 10 - 40 μm



QC6335 10 - 60 μm



QC6435 25 - 100 μm



QC6535 40 - 160 μm



QC6635 50 - 250 μm



QC6835 100 - 700 μm

	Particle Size Distribution Approx.(µm)	Composition (%) Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Yellow Gold Pigments					
QC6X36	5 - 25	37 - 57	40 - 50	3 - 13	-
QC6036	10 - 30	43 - 61	37 - 47	2 - 10	-
QC6236	10 - 40	48 - 65	34 - 44	1 - 8	< 1
QC6336	10 - 60	48 - 66	32 - 42	2 - 10	-
QC6436	25 - 100	59 - 77	20 - 30	3 - 11	-
QC6536	40 - 160	63 - 83	16 - 26	1 - 11	-
QC6636	50 - 250	68 - 87	12 - 22	1 - 10	-
Red Gold Pigments					
QC6X23	5 - 25	37 - 55	30 - 40	15 - 22	< 1
QC6023	10 - 30	43 - 63	31 - 41	6 - 16	-
QC6223	10 - 40	44 - 64	31 - 41	5 - 15	-
QC6323	10 - 60	45 - 65	30 - 40	5 - 15	-
QC6423	25 - 100	59 - 79	15 - 25	6 - 16	-
QC6523	40 - 160	63 - 83	13 - 23	4 - 14	-
QC6623	50 - 250	70 - 90	9 - 19	1 - 11	-



QC6X36 5 - 25 μm



QC6036 10 - 30 μm



QC6236 10 - 40 μm



QC6336 10 - 60 μm



QC6436 25 - 100 μm



QC6536 40 - 160 μm



QC6636 50 - 250 μm



QC6X23 5 - 25 μm



QC6023 10 - 30 μm



QC6223 10 - 40 μm



QC6323 10 - 60 μm



QC6423 25 - 100 μm

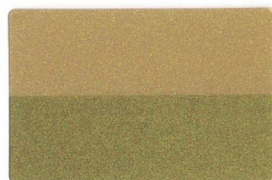


QC6523 40 - 160 μm



QC6623 50 - 250 μm

	Particle Size Distribution Approx.(µm)	Composition (%) Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Deep Gold Pigments					
QC60305	10 - 30	22 - 42	54 - 64	4 - 14	< 1
QC62305	10 - 40	19 - 40	50 - 60	10 - 20	< 1
QC63305	10 - 60	33 - 53	44 - 54	3 - 13	< 1
QC64305	25 - 100	42 - 62	36 - 46	2 - 12	< 1
QC65305	40 - 160	46 - 66	32 - 42	2 - 12	< 1
QC66305	50 - 250	65 - 80	19 - 29	1 - 5	< 1



QC60305 10 - 30 μm



QC62305 10 - 40 μm



QC63305 10 - 60 μm



QC64305 25 - 100 μm



QC65305 40 - 160 μm



QC66305 50 - 250 μm

	Particle Size Distribution Approx.(µm)	Composition (%) Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Metallic Bronze Pigments					
QC6X50	5 - 25	66 - 76	-	24 - 34	-
QC6050	10 - 30	56 - 66	-	34 - 44	-
QC6250	10 - 40	57 - 67	-	33 - 43	-
QC6350	10 - 60	72 - 83	-	17 - 28	-
QC6450	25 - 100	73 - 83	-	17 - 27	-
QC6550	40 - 160	75 - 85	-	15 - 25	-
QC6650	50 - 250	82 - 92	-	8 - 18	-
Metallic Copper Pigments					
QC6M52	1 - 15	44 - 54	-	46 - 56	-
QC6X52	5 - 25	52 - 62	-	38 - 48	-
QC6052	10 - 30	51 - 61	-	39 - 49	-
QC6252	10 - 40	50 - 60	-	40 - 50	-
QC6352	10 - 60	50 - 60	-	40 - 50	-
QC6452	25 - 100	63 - 73	-	27 - 37	-
QC6552	40 - 160	70 - 80	-	20 - 30	-
QC6652	50 - 250	78 - 88	-	12 - 22	-



QC6X50 5 - 25 μm



QC6050 10 - 30 μm



QC6250 10 - 40 μm



QC6350 10 - 60 μm



QC6450 25 - 100 μm



QC6550 40 - 160 μm



QC6650 50 - 250 μm



QC6M52 1 - 15 μm



QC6X52 5 - 25 μm



QC6052 10 - 30 μm



QC6252 10 - 40 μm



QC6352 10 - 60 μm



QC6452 25 - 100 μm



QC6552 40 - 160 μm



QC6652 50 - 250 μm

	Particle Size Distribution Approx.(μm)	Composition (%) Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5
Metallic Red Brown Pigments					
QC6X54	5 - 25	47 - 57	-	43 - 53	-
QC6054	10 - 30	45 - 56	-	44 - 54	-
QC6254	10 - 40	45 - 55	-	45 - 55	-
QC6354	10 - 60	40 - 52	-	48 - 60	-
QC6454	25 - 100	61 - 71	-	29 - 39	-
QC6554	40 - 160	66 - 76	-	24 - 34	-
QC6654	50 - 250	71 - 81	-	19 - 29	-



QC6X54 5 - 25 μm



QC6054 10 - 30 μm



QC6254 10 - 40 μm



QC6354 10 - 60 μm



QC6454 25 - 100 μm



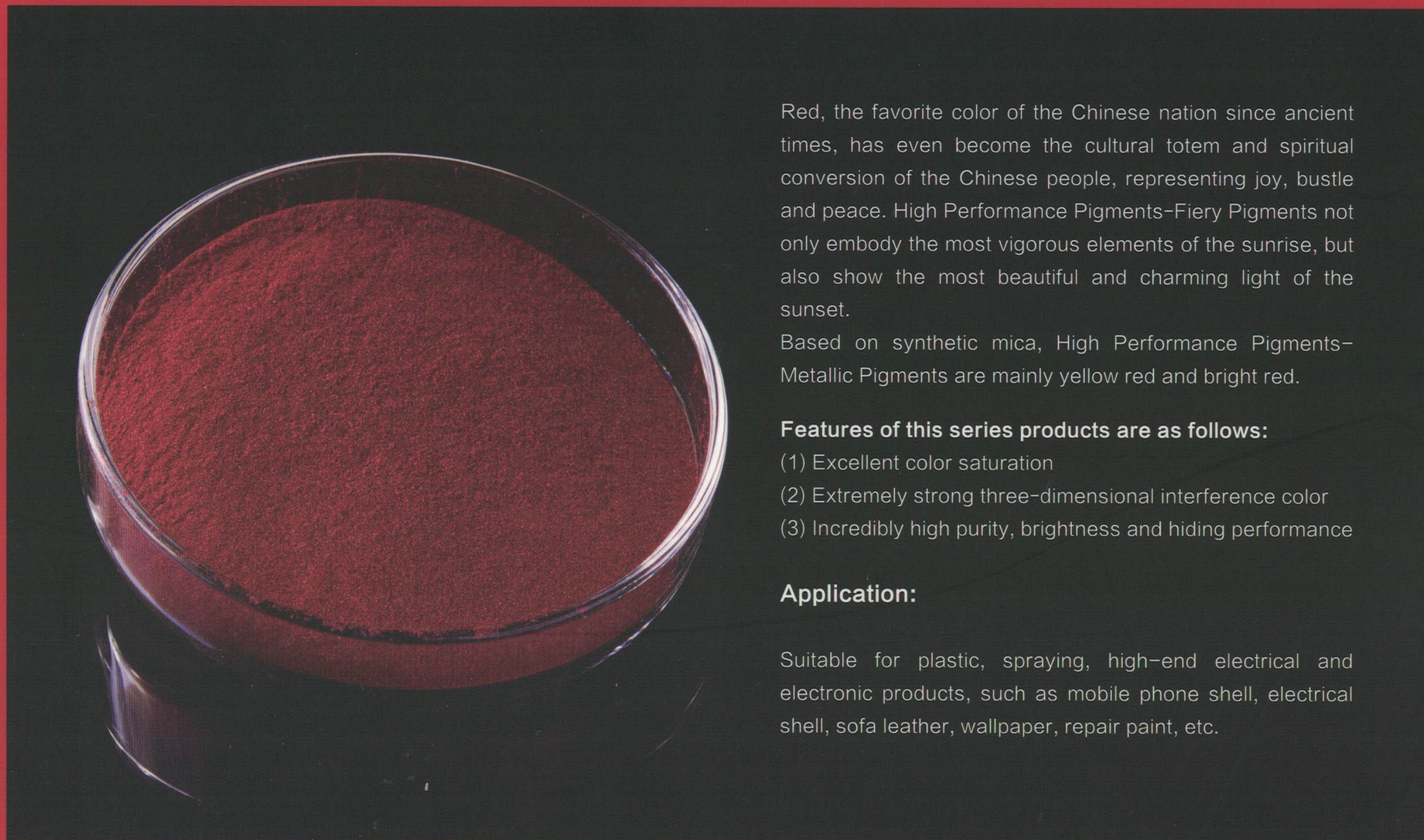
QC6554 40 - 160 μm



QC6654 50 - 250 μm

High Performance Pearlescent Pigments

– Fiery Pigments



Red, the favorite color of the Chinese nation since ancient times, has even become the cultural totem and spiritual conversion of the Chinese people, representing joy, bustle and peace. High Performance Pigments-Fiery Pigments not only embody the most vigorous elements of the sunrise, but also show the most beautiful and charming light of the sunset.

Based on synthetic mica, High Performance Pigments-Metallic Pigments are mainly yellow red and bright red.

Features of this series products are as follows:

- (1) Excellent color saturation
- (2) Extremely strong three-dimensional interference color
- (3) Incredibly high purity, brightness and hiding performance

Application:

Suitable for plastic, spraying, high-end electrical and electronic products, such as mobile phone shell, electrical shell, sofa leather, wallpaper, repair paint, etc.

High Performance Pearlescent Pigments



	Particle Size Distribution Approx.(μm)	Color	Composition (%)				
			Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5	Silicon dioxide CAS:14464-46-1
Fiery Pigments							
CR62-M1	10 - 40	Orange	49 - 59	-	41 - 51	-	-
CR62-M2	10 - 40	Orange Red	49 - 59	-	41 - 51	-	-
CR62-M3	10 - 40	Brownish Red	46 - 56	-	44 - 54	-	-
CR62-M4	10 - 40	Purplish Red	44 - 54	-	46 - 56	-	-
CR62-M5	10 - 40	Crimson	38 - 48	-	52 - 62	-	-



CR62-M1 10 - 40 μm



CR62-M2 10 - 40 μm



CR62-M3 10 - 40 μm



CR62-M4 10 - 40 μm



CR62-M5 10 - 40 μm



High Performance Pearlescent Pigments

– High Brightness Pearlescent Pigments

Products from silver white pigments and gold pigments are featured with its brightness with strong shininess and brightness. They can be used in interior wallpaper, cosmetics and other industries.

High Performance Pearlescent Pigments

– High Brightness Pearlescent Pigments



	Particle Size Distribution Approx.(µm)	Color	Composition (%)				
			Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5	Silicon dioxide CAS:14464-46-1
Silver White Pigments							
QC16400	25 - 100	Shining Silver White	63 - 83	12 - 22	-	< 1	5 - 13
QC16600	50 - 250	Sparkling Silver White	73 - 91	4 - 14	-	< 1	5 - 13
Gold Pigments							
QC864305	60 - 300	Sparkling Gold	62 - 88	1 - 9	9 - 19	< 1	2 - 10



QC16400 25 - 100 µm



QC16600 50 - 250 µm



QC864305 60 - 300 µm

High Performance Pearlescent Pigments

– High Purity Pearlescent Pigments

Chesir pearlescent pigments from this series are coated with metal oxides through lattice doping technology on the surface of substrates (natural mica, synthetic mica, glass flake) with a precise control of color. Compared with products with the same particle size, products from this series have eye-catching colors, good color saturation and strong metallic texture. They are widely used in art-ware, cosmetics, high-end leather products and coating industry.

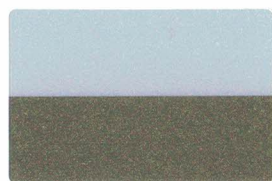


High Performance Pearlescent Pigments

– High Purity Pearlescent Pigments



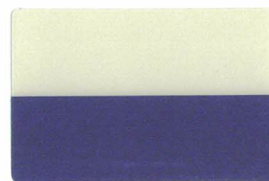
	Particle Size Distribution Approx.(μm)	Color	Composition (%)				
			Synthetic Mica CAS:12003-38-2	Titanium Dioxide CAS:13463-67-7	Iron Oxide CAS:1309-37-1	Tin Oxide CAS:18282-10-5	Silicon dioxide CAS:14464-46-1
High Purity Interference Pigments							
QC86305	10 - 60	Interference Gold	32 - 50	48 - 58	-	< 1	2 - 10
QC86315	10 - 60	Interference Red	27 - 50	48 - 58	-	< 1	2 - 15
QC86319	10 - 60	Interference Violet	31 - 52	46 - 54	-	< 1	2 - 15
QC86325	10 - 60	Interference Blue	31 - 53	45 - 54	-	< 1	2 - 15
QC86335	10 - 60	Interference Green	15 - 39	59 - 69	-	< 1	2 - 15
QC86405	25 - 100	Interference Shinning Gold	42 - 60	38 - 48	-	< 1	2 - 10
QC86605	50 - 250	Interference Glittering Gold	57 - 75	23 - 33	-	< 1	2 - 10



QC86305 10 - 60 μm



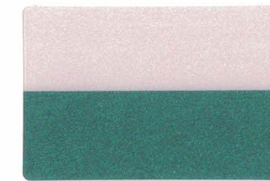
QC86315 10 - 60 μm



QC86319 10 - 60 μm



QC86325 10 - 60 μm



QC86335 10 - 60 μm



QC86405 25 - 100 μm



QC86605 50 - 250 μm



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