



AICHEMICA

PIGMENTS

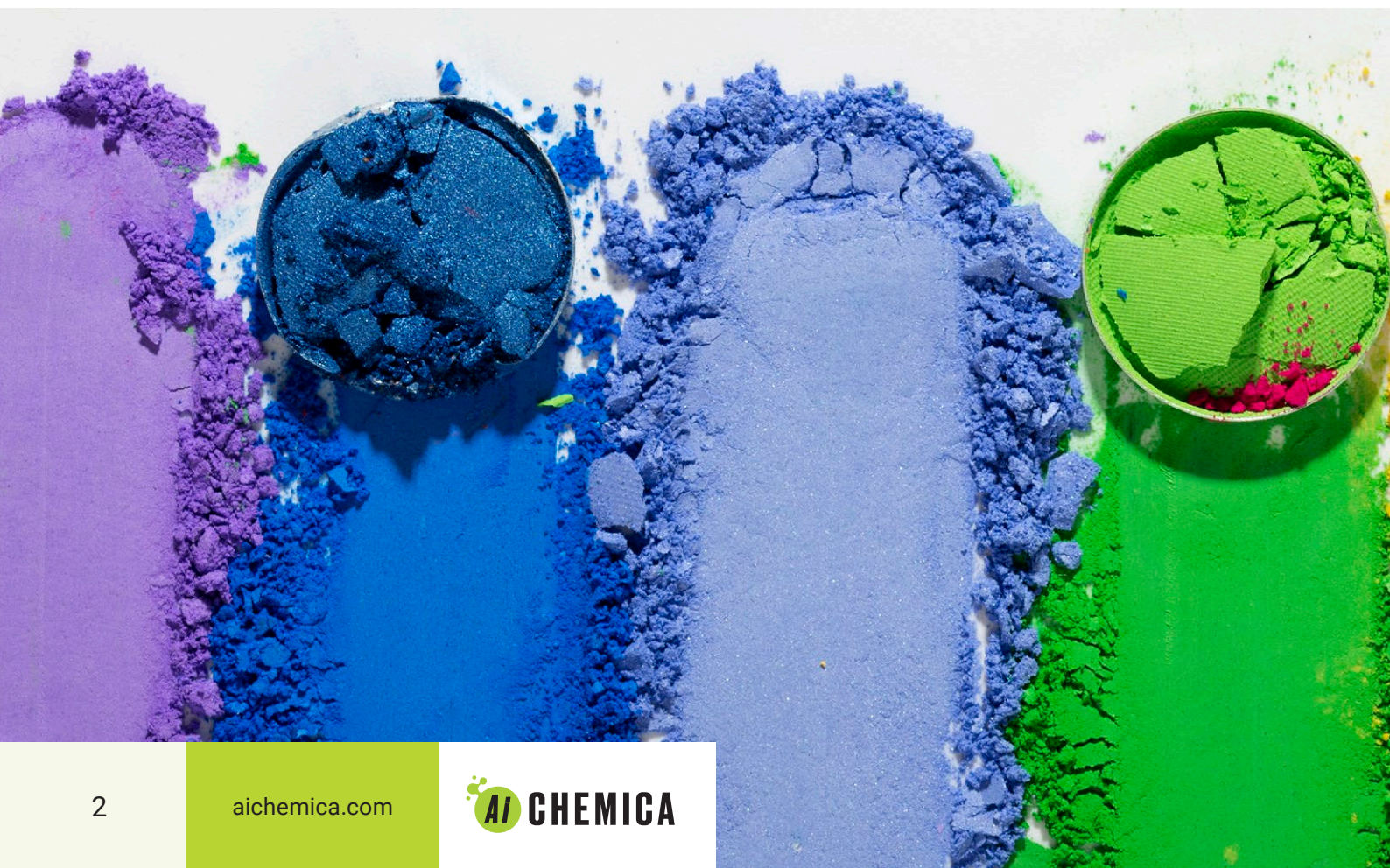


2024 AICHEMICA International Co., LTD

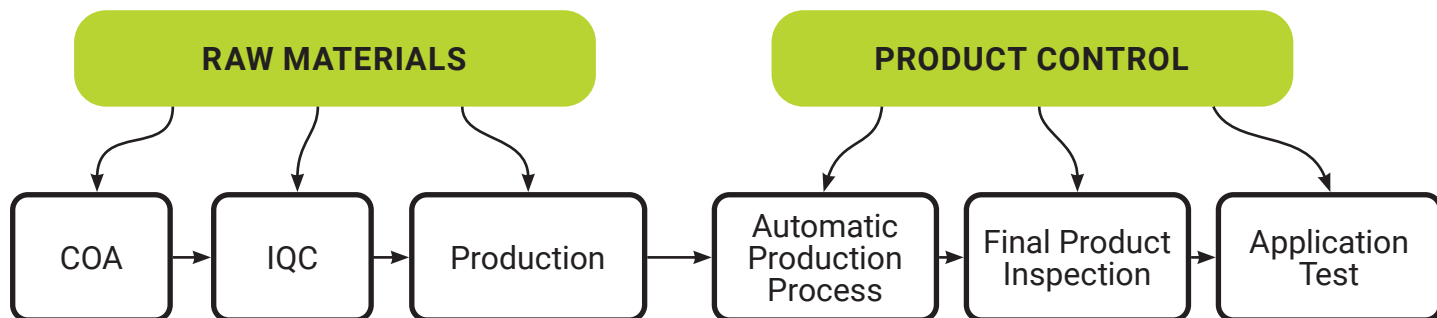
COMPANY PROFILE

AICHEMICA International Co., LTD is an international company, specialized in development, consulting and supplying chemical raw materials. We are a professional company specialized in research, development and supply different chemical raw materials. We offer high quality products, advanced know-how, after-sales service and technical support. AICHEMICA is able to meet most challenging product requirements to provide effective solutions to the construction, building and petrochemical industries.

Our products are achieved customer satisfaction through quality management, high technical R&D assistance in multiple countries such as: Russian Federation, Uzbekistan, Kazakhstan, Kyrgyzstan, Egypt and UAE. We are cooperating with the leading technical engineers who have PhD degrees in the field of product development and advanced application methods.

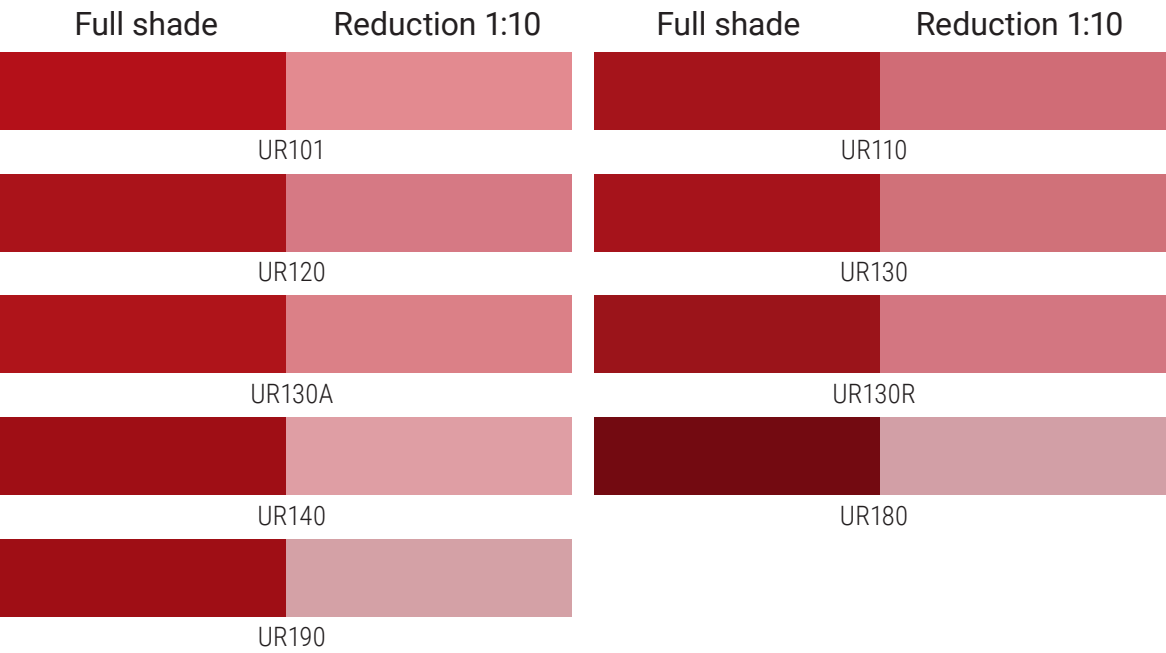


QUALITY CONTROL

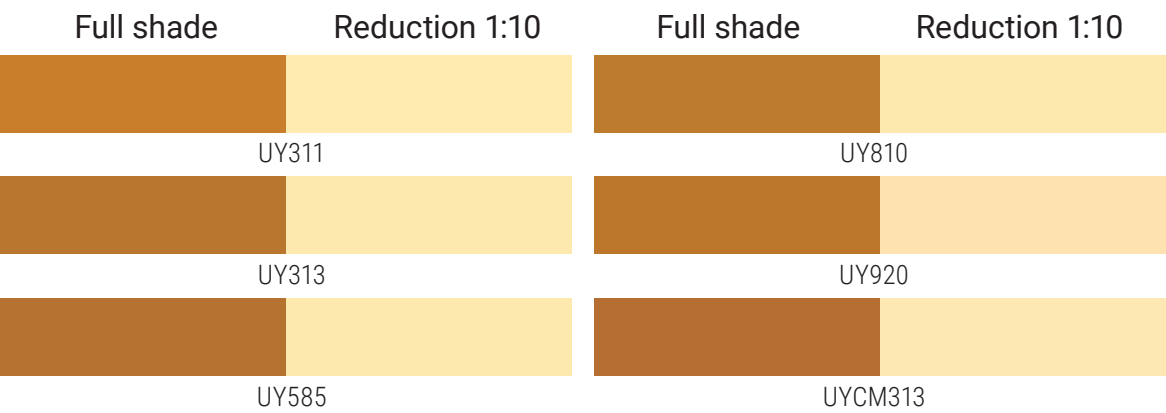


UNIVERSAL GRADE

IRON OXIDE RED

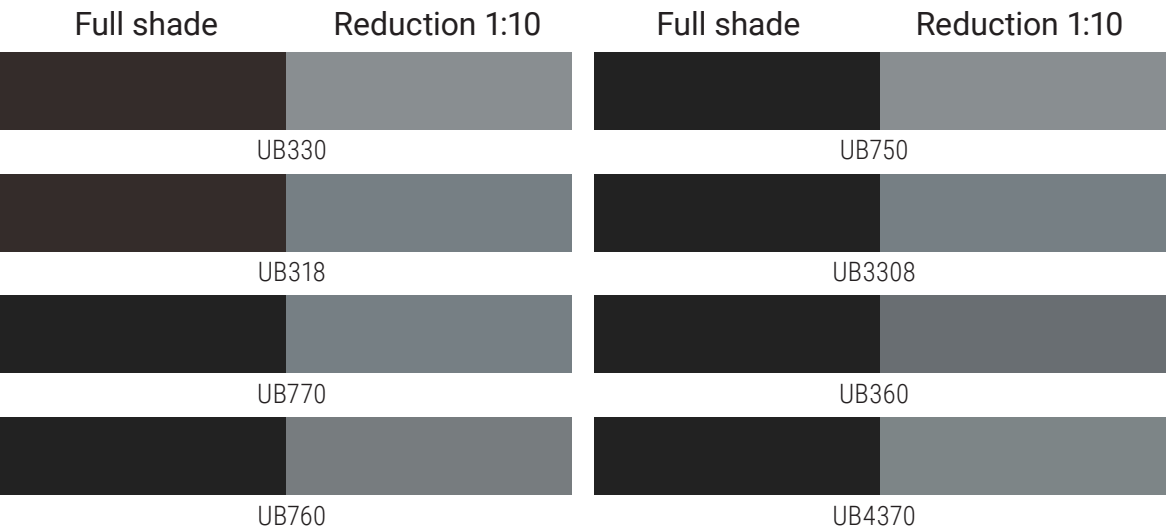


IRON OXID EYELOW

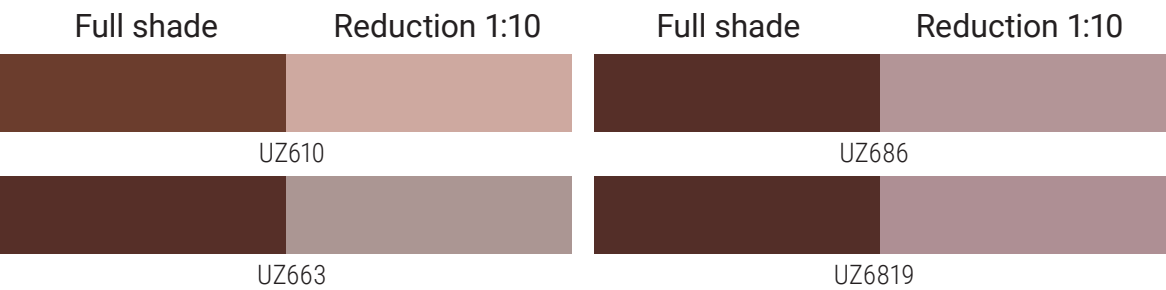


UNIVERSAL GRADE

IRON OXIDE BLACK



IRON OXIDE BROWN



TECHNICAL DATA

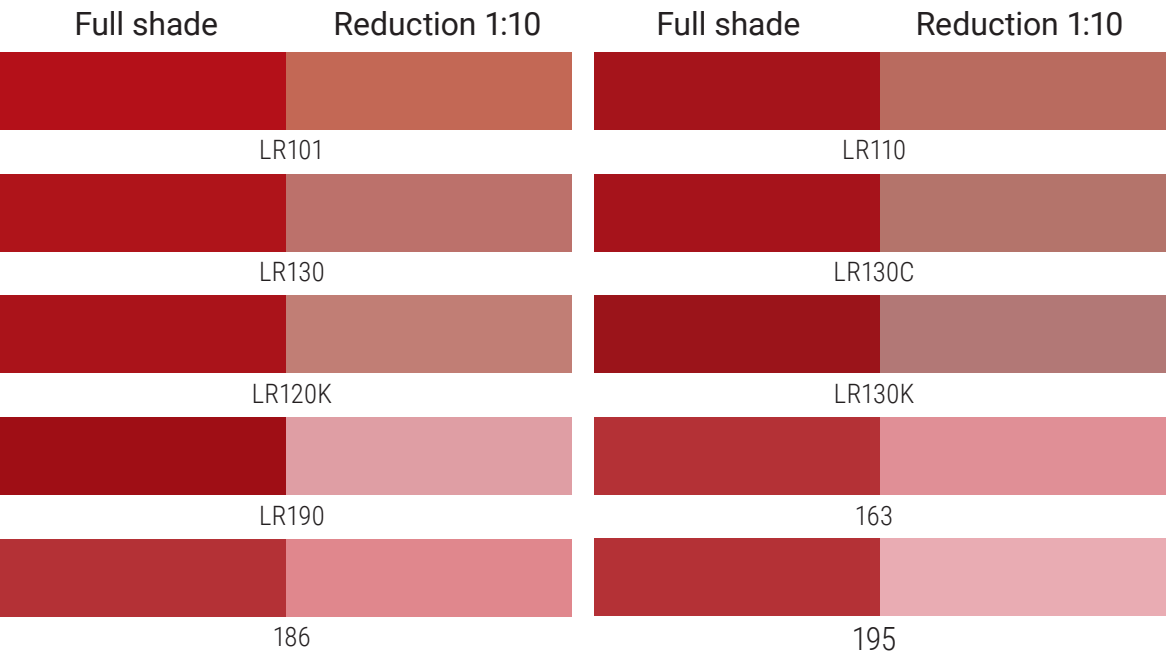
According to ISO1248

	Type	Fe ₂ O ₃ %	Oil Absorption g/100g	Res. on 325 mesh %	Water Sol. Salts %	Moisture %	PH Value	Tamped Apparent Density g/cm ³	Particle Shape	ΔE compared with std.	Tinting strength
Iron Oxide Red	UR101	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.0	spherical	≤ 1.0	97 – 103
	UR110	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.0	spherical	≤ 1.0	97 – 103
	UR120	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.0	spherical	≤ 1.0	97 – 103
	UR130	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.0	spherical	≤ 1.0	97 – 103
	UR130A	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.0	spherical	≤ 1.0	97 – 103
	UR130R	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.1	spherical	≤ 1.0	97 – 103
	UR140	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.0	spherical	≤ 1.0	97 – 103
	UR180	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.1	spherical	≤ 1.0	97 – 103
	UR190	≥ 96	15 – 25	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	1.1	spherical	≤ 1.0	97 – 103
Iron Oxide Yellow	UY311	≥ 96	25 – 35	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	0.5	acicular	≤ 1.0	97 – 103
	UY810	≥ 96	25 – 35	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	0.5	acicular	≤ 1.0	97 – 103
	UY313	≥ 96	25 – 35	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	0.6	acicular	≤ 1.0	97 – 103
	UY920	≥ 96	25 – 35	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	0.6	acicular	≤ 1.0	97 – 103
	UY585	≥ 96	25 – 35	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	0.6	acicular	≤ 1.0	97 – 103
	UYCM313	≥ 96	25 – 35	≤ 0.3	≤ 0.3	≤ 1.0	3 – 7	0.9 – 1.0	acicular	≤ 1.0	97 – 103
Iron Oxide Black	UB330	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	UB750	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	UB318	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	UB330B	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	UB770	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	UB360	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	UB760	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	UB4370	≥ 96	15 – 25	≤ 0.4	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
Iron Oxide Brown	UZ610	≥ 96	15 – 28	≤ 0.3	≤ 0.5	≤ 1.0	4 – 7	0.9	irregular	≤ 1.0	97 – 103
	UZ663	≥ 96	15 – 28	≤ 0.3	≤ 0.5	≤ 1.0	4 – 7	1.0	irregular	≤ 1.0	97 – 103
	UZ686	≥ 96	15 – 28	≤ 0.3	≤ 0.5	≤ 1.0	4 – 7	1.0	irregular	≤ 1.0	97 – 103
	UZ6819	≥ 96	15 – 28	≤ 0.3	≤ 0.5	≤ 1.0	4 – 7	1.0	irregular	≤ 1.0	97 – 103
Iron Oxide Orange	UC960	≥ 96	20 – 30	≤ 0.3	≤ 0.5	≤ 1.0	4 – 7	0.8	irregular	≤ 1.0	97 – 103
	UC2040	≥ 96	20 – 30	≤ 0.3	≤ 0.5	≤ 1.0	4 – 7	0.8	irregular	≤ 1.0	97 – 103
	UC960-2	≥ 96	20 – 30	≤ 0.3	≤ 0.5	≤ 1.0	4 – 7	0.8	irregular	≤ 1.0	97 – 103
Compound Ferric Green	UG835	≥ 96	25 – 35	≤ 0.5	≤ 2.5	≤ 1.0	≥ 6.0	1.0	irregular	≤ 1.0	97 – 103
	UG5605	≥ 96	25 – 35	≤ 0.5	≤ 2.5	≤ 1.0	≥ 6.0	1.0	irregular	≤ 1.0	97 – 103
	UG836	≥ 96	25 – 35	≤ 0.5	≤ 2.5	≤ 1.0	≥ 6.0	1.0	irregular	≤ 1.0	97 – 103
	UG5607	≥ 96	25 – 35	≤ 0.5	≤ 2.5	≤ 1.0	≥ 6.0	1.0	irregular	≤ 1.0	97 – 103
Compound Ferric	UL103	≥ 96	25 – 35	≤ 0.5	≤ 2.5	≤ 1.0	≥ 6.0	1.0	irregular	≤ 1.0	97 – 103
	UL105	≥ 96	25 – 35	≤ 0.5	≤ 2.5	≤ 1.0	≥ 6.0	1.0	irregular	≤ 1.0	97 – 103



CONSTRUCTION GRADE

IRON OXIDE RED



IRON OXID EYELOW



IRON OXID BLACK

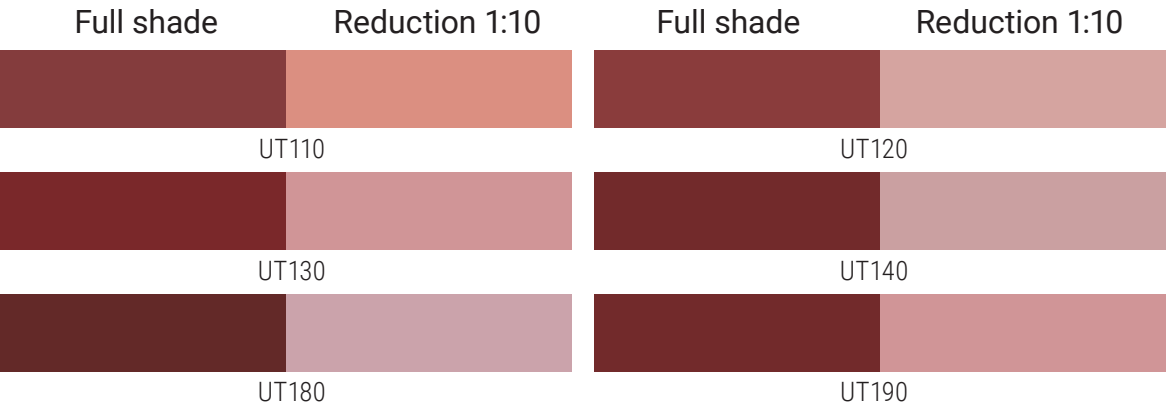


PAINT & COATING GRADE

Speciality

- Better color consistency between each lot, more bright color;
- Low viscosity and low oil absorption, help to produce pigment dispersions & paste with solid contents;
- Particle size less than 20 micro and more uniform;
- Good dispersibility, less sediment, reduce dispersing time;
- Highly reduce the grinding time, give more stability to finished products.
- Stronger tinting strength, reduce pigment dosage.

IRON OXID EYELOW



IRON OXID EYELOW



IRON OXID BLACK

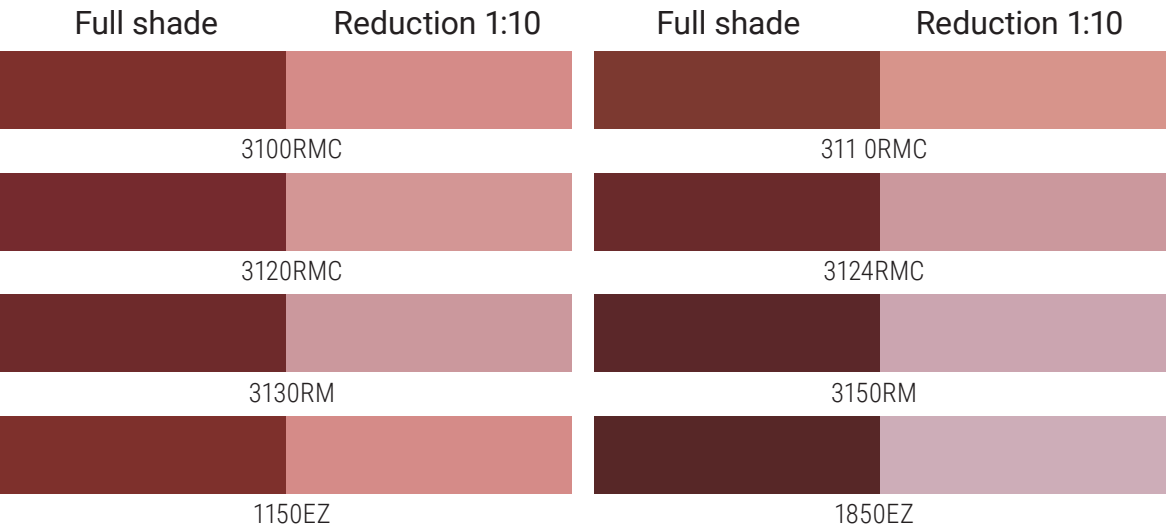


MICRONIZED GRADE

Speciality

- Particle size <17um, Hegmans >7.
- Better color consistency between each lot, more bright color;
- Excellent dispersibility, reduce dispersing time, improve productivity.
- Stronger tinting strength, reduce pigment dosage.
- Full range red,yellow,black types at customer's choice
- Recommended application: coatings, paint, ink, plastic, leather, paper, etc.

IRON OXID RED



IRON OXID EYELOW



IRON OXID BLACK

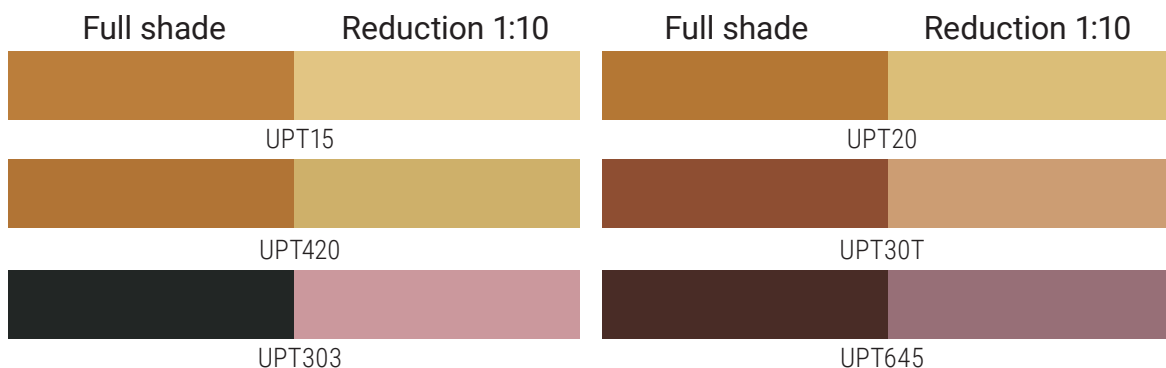


TECHNICAL DATA

	Type	Fe ₂ O ₃ %	Oil Absorption g/100g	Res. on 325 mesh %	Water Sol. Salts %	Moisture %	PH Value	Tamped Apparent Density g/cm ³	Particle Shape	ΔE compared with std.	Tinting strength
Iron Oxide Red	3100RMC	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.0	spherical	≤ 1.0	97 – 103
	3110RMC	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.0	spherical	≤ 1.0	97 – 103
	3120RMC	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.0	spherical	≤ 1.0	97 – 103
	3124RMC	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.0	spherical	≤ 1.0	97 – 103
	3130RM	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.0	spherical	≤ 1.0	97 – 103
	3150RM	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.1	spherical	≤ 1.0	97 – 103
	1150EZ	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.1	spherical	≤ 1.0	97 – 103
Iron Oxide Yellow	1850EZ	≥ 96	15 – 25	≤ 0.008	≤ 0.6	≤ 1.0	4.5 – 7	1.1	spherical	≤ 1.0	97 – 103
	4110YM	≥ 86	25 – 35	≤ 0.008	≤ 0.5	≤ 1.0	4.5 – 7	0.5	acicular	≤ 1.0	97 – 103
	4120YM	≥ 86	25 – 35	≤ 0.008	≤ 0.5	≤ 1.0	5 – 8	0.6	acicular	≤ 1.0	97 – 103
	4121YMOV	≥ 86	25 – 35	≤ 0.008	≤ 0.5	≤ 1.0	4.5 – 7	0.5	acicular	≤ 1.0	97 – 103
Iron Oxide Black	4420M	≥ 86	25 – 35	≤ 0.008	≤ 0.5	≤ 1.0	5 – 8	0.6	acicular	≤ 1.0	97 – 103
	51008M	≥ 93	15 – 25	≤ 0.010	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
	5140BM	≥ 93	15 – 25	≤ 0.010	≤ 0.5	≤ 1.0	5 – 8	1.0	spherical	≤ 1.0	97 – 103
Heatslable Yellow	UPT15	≥ 82	25 – 35	≤ 0.3	≤ 0.5	≤ 1.5	5 – 7	0.5	acicular	≤ 1.2	95 – 105
	UPT20	67 – 71	35 – 45	≤ 0.01	≤ 0.5	≤ 1.5	5 – 7	0.5	acicular	≤ 1.2	95 – 105
	UPT420	≥ 82	25 – 35	≤ 0.3	≤ 0.5	≤ 1.5	5 – 7	0.5	acicular	≤ 1.2	95 – 105
	UPT30T	≥ 67	25 – 35	≤ 0.05	≤ 1.0	5 – 7	5 – 7	1.0	Irregular	≤ 1.2	95 – 105
Heat Stable Black	UPT303	75 – 85	15 – 25	≤ 0.1	≤ 1.0	≤ 1.0	5 – 7	1.0	Irregular	≤ 1.2	95 – 105
Heat Stable Brown	UPT645	≥ 80	25 – 35	≤ 0.05	≤ 1.0	≤ 1.0	5 – 7	1.0	Irregular	≤ 1.2	95 – 105

SPECIAL TREATMENT GRADE

HEAT STABLE GRADE



Speciality

Good heat stability, up to 230°C-300°C; Good dispersibility, Filter pressing value(FPV)<1.5; Excellent dissolubility with basic raw materials, reduce dissolving time; Recommended application: plastic, asphalt, powder coating, marine coating, coil coating, silicate coating, staving coating, rubber, leather, etc.

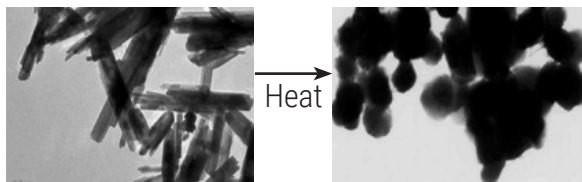


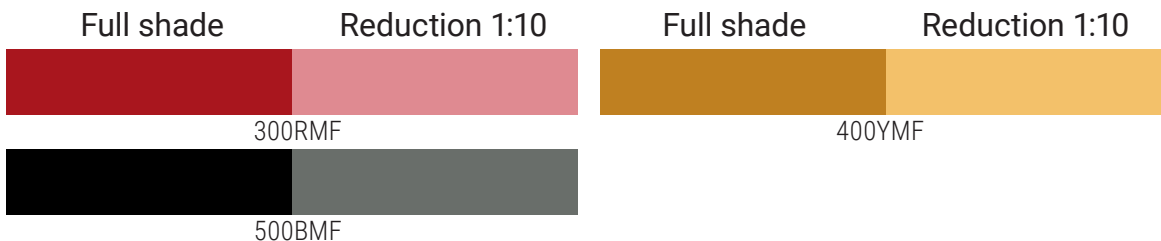
Figure :Iron oxide yellow FeO(OH)(goethite) pigments can be converted to Fe₂O₃

SPECIAL TREATMENT GRADE & OTHER PRODUCTS

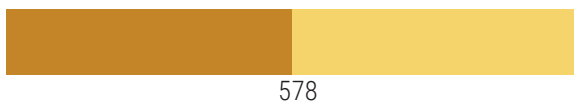
Speciality

- Low heavy metal contents; Good dispersibility; Particle size < 17µm, Hegmans > 7;
- Suitable for the feed colorants and Fe additives.

LOW HEAVY METAL GRADE



TOBACCO GRADE IRON OXIDE YELLOW



CHROME OXIDE GREEN



ULTRAMARINE BLUE



According to ISO1248

	Type	Fe ₂ O ₃ %	Oil Absorption g/100g	Res. on 325 mesh %	Water Sol. Salt %	Moisture %	PH Value	Tamped Apparent Density g/cm ³	Particle Shape	As ppm	Pb ppm	Hg ppm
Low Heavy Metal Iron Oxide Red	300RMF	≥ 95	15 – 25	≤ 0.01	≤ 0.3	≤ 1.0	4.5 – 7	1.0	spherieal	≤ 5	≤ 10	≤ 1
Low Heavy Metal Iron Oxide Yellow	400YMF	≥ 86	25 – 35	≤ 0.01	≤ 0.3	≤ 1.0	4.5 – 7	1.0	acicular	≤ 5	≤ 10	≤ 1
Low Heavy Metal Iron Oxide Black	500BMF	≥ 93	15 – 25	≤ 0.01	≤ 0.3	≤ 1.0	5 – 8	1.0	spherieal	≤ 5	≤ 10	≤ 1

	Type	Fe ₂ O ₃ %	Oil Absorption g/100g	Res. on 325 mesh %	Water Sol. Salts %	Moisture %	PH Value	Tamped Apparent Density g/cm ³	Particle Shape	ΔE compared with std.	Tinting strength
Tobacco Grade Iron Oxide Yellow	578	≥ 86	25 – 35	≤ 0.1	≤ 0.5	≤ 1.0	3.5 – 7	0.5	acicular	≤ 1.0	97 – 103
Chrome Oxide Green	GX/GN	Cr ₂ O ₃ ≥ 99	10 – 25	≤ 0.3	≤ 0.3	≤ 1.0	5 – 8	1.0 – 1.3		≤ 1.0	97 – 103
Ultramarine Blue	462/463		25 – 45	≤ 0.5	≤ 1.5	≤ 1.0	7.5 – 10	0.5 – 0.9		≤ 1.0	95 – 105

Whilst all reasonable care has been taken in the brochure, the technical data and colour shade are given in good faith. Our advice is only for your reference, and does not release you from the obligation to test and determine the suitability for your processes and applications. The application and processing of our products and the products manufactured by you are beyond our control and therefore, entirely your own responsibility, no warranty or guarantee is given by us.



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