



### Technical Competence ...



### **MAKING** IS THE DIFFERENCE

Union Colours is a wholly owned international division of the Longyu Pigment and Chemicals Corporation, the largest Organic Pigment manufacturer in China. First established in 1980, our parent group has grown to be a major force in the production of Organic pigments.

The main production site in China is situated at an industrial park in Changzhou, Jiangsu. Here we manufacture the bulk colour lines to internationally required standards that are used in Printing Inks, Coatings and Plastics. With continuous investment in new plant and technology the plant is modern, efficient and exceeds all local, regional and national environmental requirements. Our pigment dispersions plant is also in China, where we manufacture our range of Unicol brand aqueous pigment dispersions.

Whilst having substantial production capacity, the factory is supported by satellite units which produce the lesser volume high performance colour lines.

Our technical activities are global, steered from our purpose built Technical Centre in the United Kingdom, we have development and testing capabilities on three continents. This allows us to bring together our customers, development, manufacturing and quality control, resulting in a robust, sustainable supply chain and product improvement programme.

Since the foundation of the company in 2003 we have been engaged in a technically led campaign to improve the performance of our products. The continued success of this development programme is resulting in us increasingly being considered as one of the market leaders.

'Strength through Experience'



### **ORGANIC PIGMENTS**

#### **KEY TO QUICK REFERENCE GUIDE:**

Recommended Potential Use

				L	LIQUID INKS		PASTE			NKS	5		
UC Brand Name C.I Name	UC Code	Туре	Description	Aqueous	Nitrocellulose	PU	PVB	UV-Curing	Sheet fed	Cold set	Heat set	Metal Deco'	Screen
Sincol Yellow Yellow 1	1125-002	Arylide	Mid shade, recommended for aqueous inks, dispersions and screen inks.	•					0				•
Sincol Yellow Yellow 3	1104-D17	Arylide	Very clean, green shade, recommended for aqueous inks, dispersions and screen inks.	•									•
Sincol Yellow Yellow 12	1138-001	Diarylide	Mid shade, semi-opaque, recommended for aqueous inks and dispersions and cold set inks.	•					•	•			
Sincol Yellow Yellow 12	1138-007	Diarylide	Mid shade, strong, transparent, recommended for aqueous inks and dispersions.	•									
Sincol Yellow Yellow 12	1138-008	Diarylide	Process yellow shade, opaque, with excellent flow in sheet fed litho and UV flexo inks.					•	•				
Sincol Yellow Yellow 13	1126-003	Diarylide	Mid shade, semi-transparent, for aqueous inks & dispersions, PVB inks.	•			•	0					
Sincol Yellow Yellow 13	1126-D40	Diarylide	Process yellow, high gloss and transparency for NC inks and chips.	0	•	0							
Sincol Yellow Yellow 13	1126-D41	Diarylide	Process yellow (redder than D40). High gloss and transparency for NC inks and chips.		•								
Sincol Yellow Yellow 14	1140-003	Diarylide	Greenish shade, strong, semi-opaque for aqueous inks & dispersions and PVB inks.	•			•						
Sincol Yellow Yellow 14	1140-D06	Diarylide	Greenish shade, highly transparent and glossy, recommended for NC and UV flexo inks.		•	•		•					
Sincol Yellow Yellow 14	1140-009	Diarylide	Greenish shade, transparent and strong for aqueous inks and dispersions.	•									
Sincol Yellow Yellow 17	1124-001	Diarylide	Very green shade, semi-transparent for aqueous, sheet fed, metal deco' and screen inks.	•					•			•	•
Sincol Yellow Yellow 74	1136-D24	Arylide	Mid shade, highly transparent, glossy and strong. Recommended for NC inks.	0	•								
Sinfast Yellow Yellow 83	1160-003	Diarylide	Red shade, semi-transparent for aqueous inks and dispersions.	•									0
Sinfast Yellow Yellow 83	1160-D65	Diarylide	Red shade, highly transparent and glossy for NC inks.		•								



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	ast Yellow ellow 155	1135-001	Bisaceto- acetarylide	Green shade, opaque and strong. Recommended where higher fastness properties are a requirement.	•				•		•		•	•
	col Yellow ellow 174	1128-D62	Diarylide	'Process yellow', highly transparent excellent flow in sheet fed and UV flexo.					•	•				
	col Yellow ellow 174	1128-G21	Diarylide	'Process yellow', highly transparent, economical.						•	•	•		
	fast Yellow ellow 185	1184-001	Isoindoline	Greenish shade, high strength. Recommended where higher fastness properties are a requirement.		•		•		•				
	col Orange Orange 5	2166-001	B-Naphthol	Reddish shade, opaque, for aqueous inks / dispersions and screen inks.	•									•
	col Orange Prange 13	1151-003	Disazo- pyrazolone	Yellow shade, strong, semi-opaque for aqueous inks and dispersions.	•									
	col Orange Orange 13	1151-005	Disazo- pyrazolone	Yellow shade, semi-opaque for sheet fed and UV flexo.	0				•	•				
	col Orange Orange 34	1156-002	Disazo- pyrazolone	Red shade, semi-opaque for aqueous inks and dispersions.	•					0				
	col Orange Orange 34	1156-G34	Disazo- pyrazolone	Reddish shade, highly transparent with excellent rheology in NC and UV flexo inks.	0	•			•	0				
	col Orange Prange 34	1156-G40	Disazo- pyrazolone	Reddish shade (yellower than G34) Highly transparent, with excellent rheology in NC and UV flexo inks.	0	•			•	0				
Si	nfast Red Red 2	3130-002	Naphthol AS	Yellow shade, strong, semi-opaque for aqueous and UV flexo inks.	•				•	0				
	col Rubine Red 48:2	3120-003	BONA, Ca	Mid shade, transparent with good gloss for NC inks and selected aqueous inks.	0	•								
	nlake Red Red 53:1	3110-005	B-Naphthol Ba	Yellow shade with good strength & gloss, for NC, aqueous, sheet fed, PU and UV flexo inks.	•	•	•	0	•	•			0	
	nlake Red Red 53:1	3110-G50	B-Naphthol Ba	Clean yellow shade with good strength and gloss for Metal deco' and sheet fed inks.	0				0	•			•	
	col Rubine Red 57:1	3160-006	BONA, Ca	Blue shade with good gloss and transparency recommended for NC and UV flexo inks.		•	0	0	•					



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Sincol Rubine Red 57:1	3160-D32	BONA, Ca	Blue shade, excellent stability in high pigmentation aqueous inks / dispersions and UV flexo.	•				•					
Sincol Rubine Red 57:1	3164-009	BONA, Ca	Mid-shade, good all-round performance in heat set and cold set inks.							•	•		
Sincol Rubine Red 57:1	3164-G38S	BONA, Ca	Blue shade, process magenta. Good perfomance in all offset inks.						•	•	•		
Sincol Rubine Red 57:1	3164-D74	BONA, Ca	Yellow shade, low conductivity, excellent rheology in heat set and sheet fed inks.						•	•	•		
Sincol Rubine Red 57:1	3164-D75	BONA, Ca	Blue shade, low conductivity, excellent rheology in heat set / sheet fed inks and metal deco'.						•	0	0	•	
Sinfast Red Red 112	3150-001	Naphthol AS	Yellow shade, high strength, for aqueous inks / dispersions and UV flexo.	•				•					0
Sinfast Carmine Red 146	3123-001	Naphthol AS	Blue shade, for use in aqueous inks and dispersions.	•									
Sinfast Carmine Red 146	3123-D47	Naphthol AS	Blue shade, excellent gloss and transparency in NC inks.		•		0	•					
Sinfast Carmine Red 146	3123-D67	Naphthol AS	Blue shade (bluer than D47) excellent gloss and transparency in NC inks.		•		0						
Sinfast Pink Red 147	3147-D89	Naphthol AS	Blue shade, recommended for NC and aqueous inks.	•	•								
Sinfast Pink Red 147	3147-G20	Naphthol AS	Blue shade (bluer than D89) recommended for NC and aqueous inks. Potential as replacement for CuFe and Double/Triple salt reds.	•	•								
Sintone Pink Red 169	2200-001	Triaryl- carbonium	Bright rhodamine shade, recommended for aqueous inks and dispersions.	•									
Sinfast Red Red 170	3128-001	Naphthol AS	Mid-shade, recommended for aqueous inks and dispersions.	•									0
Sinfast Red Red 170	3128-D22	Naphthol AS	Mid-shade, excellent gloss and transparency, recommended for NC, PVB, aqueous, PU and UV flexo inks.	•	•	•	•	•					
Sinfast Red Red 184	3129-001	Naphthol AS	Blue shade, recommended for aqueous inks and dispersions.	•									



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Sinfast Red Red 184	3129-D35	Naphthol AS	Blue shade, excellent gloss and transparency in NC inks.		•								
Sinfast Red Red 184	3129-D44	Naphthol AS	Blue shade, excellent gloss and transparency in PVB inks.	•		0	•						
Sinfast Red Red 185	3136-002	Benzimida- zolone	Bluish shade, for NC and aqueous inks, metal deco' and screen inks. Very good all-round fastness properties.	•	•							•	•
Sinfast Red Red 266	3132-D66	Naphthol AS	Mid-shade, good strength and stability, for aqueous inks and dispersions.	•									
Sinco Blue Blue 15:3	4382-003	Cu Phthalo,	Green shade, good flow, for sheet fed and screen inks.						•				•
Sinco Blue Blue 15:3	4382-006	Cu Phthalo,	Clean green shade, high strength, for aqueous inks & dispersions.	•				0					
Sinco Blue Blue 15:3	4382-008	Cu Phthalo,	Clean green shade, high strength, recommended for UV flexo inks.					•					
Sinco Blue Blue 15:4	4392-002	Cu Phthalo,	Very good gloss and transparency in NC inks.		•								0
Sintone Violet Violet 3	6250-001	Triarylcar- bonium	Blue shade, recommended for aqueous inks and dispersions.	•									
Sintone Violet Violet 3	6250-005	Triarylcar- bonium	Red shade, very good gloss and transparency in NC inks.		•								
Sincar Violet Violet 23	6260-003	Dioxazin	Red shade, recommended for aqueous inks and dispersions.	•									0
Sincar Violet Violet 23	6260-004	Dioxazin	Red shade, recommended for NC inks.		•	0		•					0
Sintone Violet Violet 27	6270-001	Triarylcar- bonium	Very clean blue shade, recommended for aqueous inks and dispersions.	•									

- Diarylide Pigments may decompose >200\*C, see ETAD Notice No.2
- Product Technical Data Sheets are available on request.
- The information in this brochure is based on our current knowledge, information and experience.
   Responsibility or liability cannot be assumed for factors lying outside our knowledge and or control.



# As a preferred supplier we adopt strategies to ensure continuity of supply

In anticipation of environmental pressures we have already improved our production processes to optimise water utilisation and minimise effluents.

As a producer, sustainability is something we have to consider carefully going forward. If pigment makers and their raw material suppliers do not have in place adequate water treating facilities, then

local and national environmental laws will force these makers to cease production. In LONGYU we have taken this matter very seriously, and during 2012 we built a technically sophisticated water treatment facility. This new facility is treating effluents to standards exceeding the most stringent of controls, nationally and internationally.

This investment has also resulted in a marked increase to our production capacity. We now have the facility to safely manufacture in excess of 80,000 Metric Tonnes per annum of organic pigments.

With our capacity we are the largest sustainable source of organic pigments globally.

UK Headquarters and Technical Centre



UK Development Laboratory





China – Offices & Laboratories



China – Pigment Production line

India – Technical Centre



South Africa – Laboratories





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