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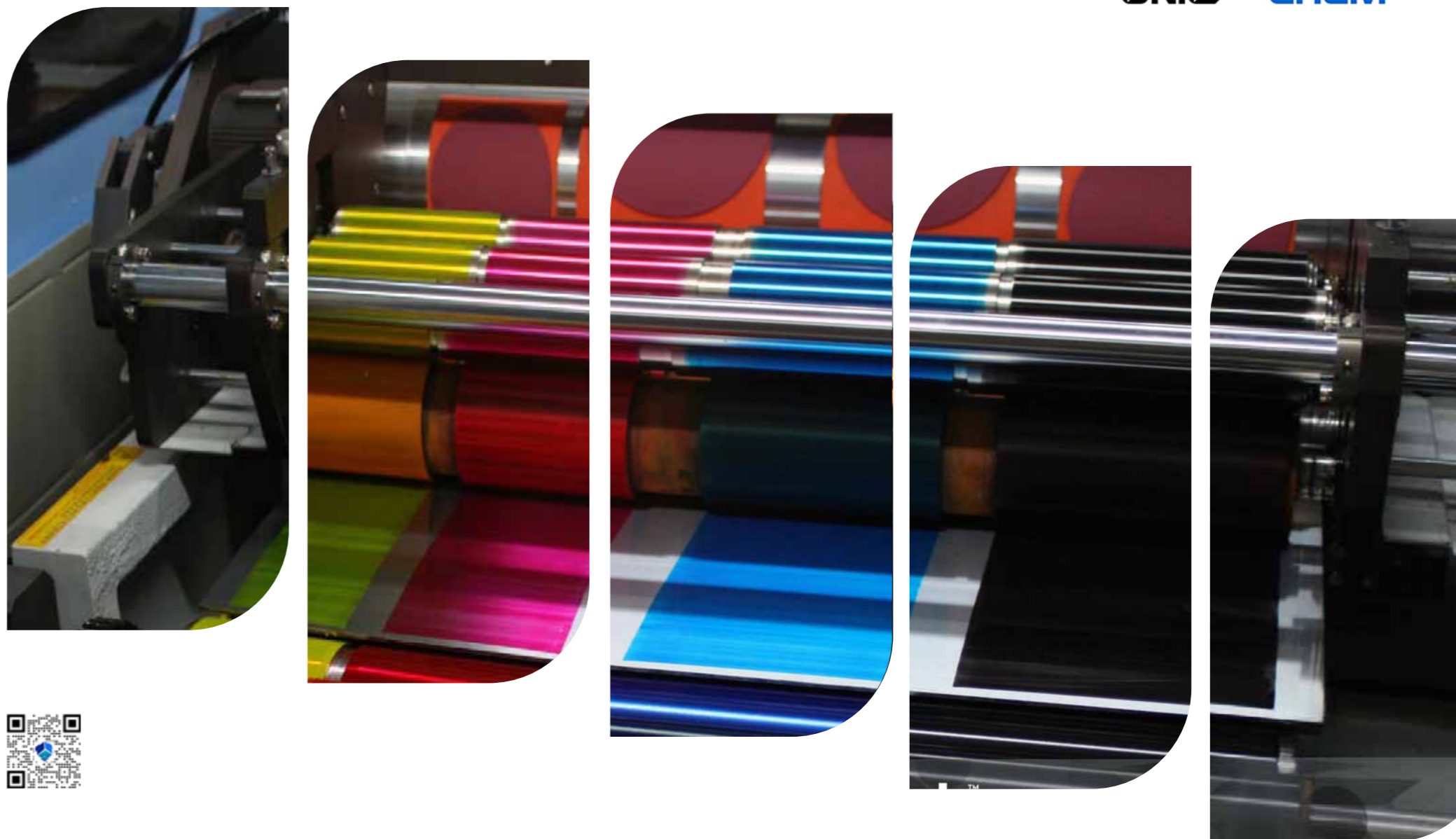


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Performance Additives for Ink



UNIQ[®] SPERSE / UNIQ[®] JET

Dispersing agent plays a very important role for the wetting and stabilization of pigments. The faster the wetting is taking place, the faster stabilization can take place. In this process it is important to be able to reduce the particle size back to the primary particle of the pigment. Then you will achieve the maximum color strength. Very good dispersing agents will offer you every good viscosity reduction, color strength, reduction in processing time. These wetting and dispersing agents are offered by **UNIQCHEM** under the brand of **UNIQ[®] SPERSE**. **UNIQ[®] JET** series are specially designed for inkjet application.

PRODUCTS	CHEMICAL STRUCTURE	ACTIVE SOLID %	DILUENT	WATER BORNE	SOLVENT BORNE	UV	PERFORMANCE
UNIQ [®] SPERSE 9012	Polymeric	40	WATER	●		●	Suitable for all the pigments, can be used for pigment concentrates
UNIQ [®] SPERSE 9330	Polymeric	100	—	●	●	●	TiO2 and inorganicpigment dispersions, excellent in viscosity reduction
UNIQ [®] SPERSE 9350	Polymeric	45	PMA/BA		●		Good compatibility with resins and solvents. Suitable for all pigments dispersion
UNIQ [®] SPERSE 9370	Polymeric	100	—		●		Suited for all pigments, can be used for pigment concentrates
UNIQ [®] SPERSE 9380	Polymeric	100	—	●	●	●	Suited for all pigments, can be used for pigment concentrates
UNIQ [®] SPERSE 9450	Polymeric	100	—	●	●		Suitable for universal tinters for all pigments dispersion. Especially good in TiO2 and inorganic pigments dispersion with good sedimentation and anti-floating properties
UNIQ [®] JET 9506	Polymeric	30	PMA/BA		●	●	Good color developing for most of the organic pigments, improved viscosity, gloss and color strength
UNIQ [®] JET 9510	Polymeric	100	—		●	●	Suitable for all pigments dispersion in solvent borne and UV system
UNIQ [®] JET 9515	Polymeric	50	PMA		●	●	Organic and inorganic pigments dispersion, excellent for jetness improvement of carbon black
UNIQ [®] JET 9520	Polymeric	100	—		●	●	Suitable for all pigments dispersion in solvent borne and UV system
UNIQ [®] JET 9525	Polymeric	50	PMA		●	●	Organic and inorganic pigments dispersion, good storage stability
UNIQ [®] JET 9528	Polymeric	100			●	●	Suitable for all pigments dispersion in solvent-, water-based and UV system
UNIQ [®] JET 9529	Polymeric	100			●	●	Suitable for all pigments dispersion in solvent-, water-based and UV system
UNIQ [®] JET 9550	Polymeric	100	—	●	●	●	Suitable for all pigments dispersion in solvent-, water-based and UV system
UNIQ [®] JET 9560	Polymeric	100	—	●	●	●	Suitable for all pigments dispersion in solvent-, water-based and UV system



GRAVURE INK

Aromatics Toluene	Aromatics/Ketone Toluene / MEK	Ketone/Esters MEK / EA	Esters/Alcohol EA / IPA (EtOH)	Alcohol IPA (Et/OH)
		Organic pigments		
UNIQ [®] SPERSE 605S		UNIQ [®] SPERSE 9380 UNIQ [®] SPERSE 9506 UNIQ [®] SPERSE 770U		UNIQ [®] JET 9560
		Inorganic pigments		
		UNIQ [®] SPERSE 716S UNIQ [®] SPERSE 730U UNIQ [®] SPERSE 770U UNIQ [®] SPERSE 780U		

OFFSET INK

PRODUCTS	CHEMICAL STRUCTURE	ACTIVE SOLID %	WATER BORNE	SOLVENT BORNE	UV	PERFORMANCE
UNIQ [®] JET 9528	Polymeric	100		●	●	Suitable for all pigments dispersion in solvent borne and UV system
UNIQ [®] JET 9560	Polymeric	100	●	●	●	Organic and inorganic pigments dispersion, excellent for jetness
UNIQ [®] SPERSE 730U	Polymeric	100	●	●	●	TiO2 and inorganic pigments dispersion, excellent in viscosity reduction
UNIQ [®] SPERSE 9380	Polymeric	100	●	●	●	Suited for all pigments dispersions
UNIQ [®] SPERSE P-193	Polymeric	100		●	●	TiO2 and inorganic pigments dispersion, excellent in viscosity reduction

FLEXOGRAPHIC INK

PRODUCTS	CHEMICAL STRUCTURE	ACTIVE SOLID %	DILUENT	WATER BORNE	SOLVENT BORNE	UV	PERFORMANCE
UNIQ [®] JET 9053	Polymeric	100		●	●		Suitable for universal tinters for all pigments dispersion. Especially good in TiO2 and inorganic pigments dispersion with good sedimentation and anti-floating properties
UNIQ [®] JET 9560	Polymeric	100		●	●	●	Suitable for universal tinters for all pigments dispersion. Very good for black and
UNIQ [®] SPERSE 9380	Polymeric	100	—	●	●	●	Suitable for universal tinters for all pigments dispersion. Especially good in TiO2 and inorganic pigments dispersion with good sedimentation and anti-floating properties
UNIQ [®] SPERSE 9012	Polymeric	40	WATER	●			Suitable for all the pigments, can be used for pigment concentrates
UNIQ [®] SPERSE 9335	Polymeric	40	WATER	●			Suitable for all the pigments, can be used for pigment concentrates