

Printing Inks,  
Varnishes and Coatings

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# Science from Nature

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# Science from Nature

Ecological and  
sustainable solutions

**Global applications**  
Coldset  
Heatset  
Sheetfed  
Overprint varnishes  
Publication gravure  
Specialty coatings

## Offset Printing Inks and Varnishes

PRODUCT LINE	PRODUCT	VISCOSITY (Rheometer, 23°C, 25s-1, Pa.s)			CLOUD POINT (°C)		Properties and application recommendations
		% Solids	Viscosity	Test Oil	Cloud Point	Test Oil	
TERTAC Phenol formaldehyde free rosin esters	TT 132	60%	25-35	6/9 AR Blend	50-70	6/9 AR New	High softening point maleic modified rosin esters that promotes faster drying, hardness, gloss, and color stability to overprint varnishes and offset printing inks
	TT 170	35%	40-60	6/9 AR Blend	60-80	6/9 AR Blend	
	TT 730	40%	25-40	6/9 AR Blend	90-110	6/9	
	TT ND2198	45%	16-23	6/9	60-75	6/9	Low polarity, low softening point rosin resin with medium solubility in mineral oils and excellent wetting properties

## Modified Rosin Resins for Coatings

PRODUCT LINE	PRODUCT	ACID VALUE (mg KOH/g)	SOFTENING POINT (°C)	VISCOSITY (Gardner Holdt, 25°C)	Properties and application recommendations
REDUR Phenol formaldehyde free rosin esters	MA 80	25 max.	100-120	D-F (50%, White Spirit)	High gloss, very good hardness, water, and UV resistance
	MA 200	20 max.	145-155	A-B (50%, Toluene)	
TERTAC Phenol formaldehyde free rosin esters	TT 150	16 max.	145-155	V-Z (50%, White Spirit)	Improves gloss, color retention, adhesion, and hardness properties in nitro cellulosic varnishes
	TT N320	30 max.	115-125	G-H (65%, Toluene)	
	TT N340	35 max.	130-140	F-J (60%, Toluene)	

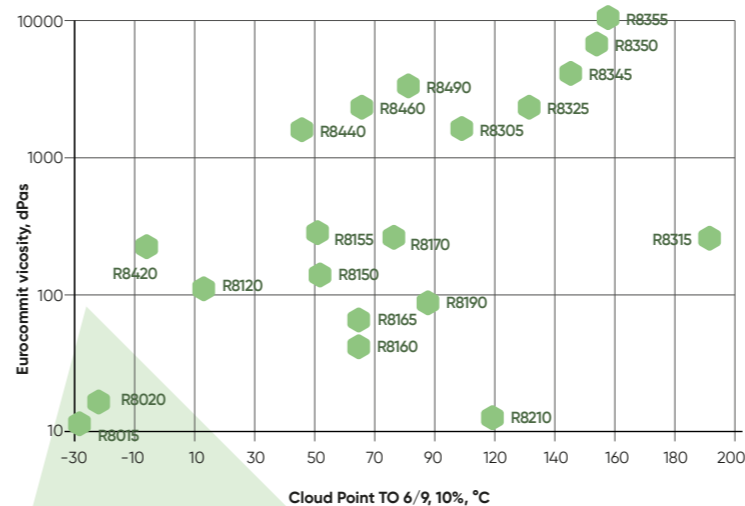
## Varnishes for Inks

PRODUCT LINE	PRODUCT	VISCOSITY (Rheometer, 23°C, 25s-1, Pa.s)		CLOUD POINT (°C)		Properties and application recommendations
				Cloud Point	Test Oil	
RESISOL Phenol formaldehyde free rosin esters	RE 25608		90-120	90-120	6/9 AR New	These varnishes are based on phenol and formaldehyde free rosin resins, aromatic free mineral oils, vegetable oils and FAME. To be used in offset and sheetfed printing inks.
	RE 26013		300-400	120-140	6/9 AF New	
	RE 27303		150-170	100-120	6/9 AF New	

## Offset Printing Inks and Varnishes

PRODUCT LINE	PRODUCT	VISCOSITY (Rheometer, 23°C, 25s-1, Pa.s)			CLOUD POINT (°C)		Properties and application recommendations
		% Solids	Viscosity	Test Oil	Cloud Point	Test Oil	
Phenol-Formaldehyde FREE Rosin Esters RESINK 8000 Series	Resink 8015	55%	8 - 15	6/9 AF New	60 - 80	6 /9 AF New	Low viscosity rosin resin with high solubility. Suitable for grinding applications, sheetfed and offset inks and overprint varnishes.
	Resink 8020	60%	25 - 35	6/9 AR Blend	50 - 70	6 /9 AF New	Low molecular weight rosin resin with low viscosity and high solubility. Recommended for offset inks, sheetfed and overprint varnishes.
	Resink 8120	45%	20 - 35	6/9	120 - 140	6 /9 AF	Medium viscosity rosin resin with high solubility in aromatic free oils. Appropriate for sheetfed offset inks and food packaging inks.
	Resink 8150	45%	15 - 30	6/9 AR Blend	50-70	6/9	Medium viscosity and structured rosin resin with high solubility. Suitable for sheetfed offset inks and varnishes.
	Resink 8155	45%	35 - 50	6/9 AR Blend	120 - 140	6 /9 AF New	Medium viscosity and structured rosin resin with high solubility. Recommended for sheetfed offset inks and varnishes.
	Resink 8160	45%	15 - 25	6/9	60 - 75	6/9	Low softening point rosin resin with excellent wetting properties. For sheetfed and offset inks and for grinding applications.
	Resink 8165	45%	15 - 30	6/9	60 - 80	6/9	Low viscosity rosin resin with good compatibility with aromatic free mineral oils. Recommended for sheetfed and offset inks and for grinding applications.
	Resink 8170	35%	15 - 25	6/9 AR Blend	80 - 100	6/9	Medium viscosity rosin resin with good compatibility with aliphatic oils. Appropriate for heatset and sheetfed inks and varnishes.
	Resink 8190	50%	40 - 50	6/9 AR Blend	80 - 100	6/9	
	Resink 8210	55%	25 - 35	6/9	105 - 125	6/9	Medium viscosity rosin resin that improves gloss, colour retention and hardness in nitrocellulosic and resinous varnishes
	Resink 8305	40%	25 - 40	6/9 AR Blend	90 - 110	6/9	High softening point rosin resin with good solubility in drying oils and good compatibility with most long oil alkyls. Recommended for Sheetfed and Heatset offset inks, grinding applications and overprint varnishes.
	Resink 8307	35%	35 - 50	6/9 AR	90-110	6/9 AR Blend	High viscosity rosin resin with good compatibility with aromatic oils. For heatset and sheetfed inks and varnishes.
	Resink 8315	35%	25 - 35	6/9 AR	110-125	6/9 AR Blend	Medium/high viscosity rosin resin with good compatibility with aromatic and aliphatic mineral oils. Suitable for heatset and sheetfed inks and varnishes.
	Resink 8325	40%	40 - 55	6/9 AR Blend	115 - 135	6/9	High softening point rosin resin with good solubility in drying oils and good compatibility with most long oil alkyls. For heatset and sheetfed printing inks and overprint varnishes.
	Resink 8350	40%	40 - 60	6/9 AR Blend	145 - 165	6/9	High softening point rosin resin with good solubility in drying oils and good compatibility with most long oil alkyls. Suitable for offset printing inks and overprint varnishes.
	Resink 8355	35%	40 - 60	6/9 AR Blend	60 - 80	6/9 AR Blend	High softening point rosin resin with good solubility in drying oils and good compatibility with FAME. Recommended for offset printing inks and overprint varnishes.
	Resink 8420	40%	20 - 30	6/9	110-130	6/9 AF	Medium/high viscosity rosin resin with high solubility and good pigment wetting properties. For web offset, heatset and coldset inks.
	Resink 8440	35%	10 - 25	6/9 AR Blend	120-140	6 /9 AF New	Medium softening point rosin resin with good solubility in aromatic free oils. Suitable for offset printing inks.
	Resink 8460	35%	10 - 25	6/9 AR Blend	60 - 80	6/9	Medium softening point rosin resin with good solubility in aromatic free oils, for use in offset printing inks.
	Resink 8490	35%	15 - 25	6/9 AR Blend	80 - 95	6/9	Medium viscosity rosin resin with good compatibility with aromatic and aliphatic mineral oils. Suitable for Heatset and Sheetfed inks and varnishes.

33.3% resin in ARLO



40% resin in 6/9 pkwf AR Test Oil

