



**Printing Ink  
Distillates**

# Printing Ink Distillates

**PKWF®, Paraset® and Printosol® products from Haltermann Carless offer an extensive range of printing ink distillates for all types of heatset, coldset and sheetfed applications.**

They provide inkmakers with a choice of characteristics to meet the requirements of their particular ink formulations, balancing the drying characteristics and solvency power of the distillate. Narrowly defined distillation ranges from 190 °C to 335 °C allow maximum control at the drying stage, and their broad solvency spectrum ranges from the

strong solvent Printosol® AR to alternatives low in aromatics with high aniline points. This provides the flexibility essential to address the varying mineral oil tolerances of printing ink resins. Tailored boiling range, aniline point and aromatic level all help to optimise the formulation of the finished ink.

## Low Aromatic Distillates

Where lower aromatic inks are required, such as to comply with Blue Angel regulations or for more sensitive printing applications such as food packaging, where taint or odour are critical, Haltermann Carless provides a wide range of distillates suitable for use with a range of resin systems.

As part of its commitment to supporting the industry, Haltermann Carless is also well advanced in its development of printing ink distillates from sustainable, bio-based raw materials rather than mineral oil.

Standard Grades	Aromatics	Distillation range at 1013 kPa		Density at 15 °C ISO 12185 ASTM D4052	Carbon-type composition		
		ISO 3405 / ASTM D86			DIN 51378 / ASTM D2140		
		IBP in °C	DP in °C		CA %	CN %	CP %
<b>Paraset® 26L</b>	Low	240	270	815	< 1	40	60
<b>Paraset® 269L</b>		240	300	820	< 1	–	–
<b>Paraset® 29L</b>		255	305	815	< 1	36	64
<b>Paraset® 32L</b>		275	320	820	< 1	31	69
<b>PKW® 1/3 AF</b>		190	240	750	< 1	< 1	99
<b>PKWF® 4/7 AF NEW</b>		240	275	804	< 1	25	74
<b>PKWF® 6/9 AF NEW</b>		260	295	805	< 1	25	74
<b>PKWF® 28/31 AF NEW</b>		280	325	812	< 1	25	74
<b>PKWF® 4/7</b>	Medium	240	275	824	12	22	66
<b>PKWF® 5/9 AP 84</b>		250	295	814	3	24	73
<b>PKWF® 6/9</b>		260	295	830	12	22	66
<b>PKWF® 29/33</b>		280	335	835	5	24	71
<b>Printosol® 6/9 AR</b>	High	260	295	875	25	20	55
<b>Printosol® 28/31 AR</b>		280	325	882	25	20	55

## Test Oils

Exacting specification test oils in the distillation range of 260 °C to 290 °C have been developed together with leading resin and printing ink manufacturers in the Eurocommit working group, and are readily available in smaller packages. Test oils are used

with Eurocommit methods for the measurement of precipitation temperature and varnish viscosity, offering the industry the possibility of using consistent standards for quality control of printing ink resins both by the manufacturer and by the user.

## Commitment

Assured quality and guaranteed performance, backed up by experienced technical and development resources, provide continued development and the best possible support for our customers' individual requirements. Haltermann Carless PKWF® and Paraset® distillates are produced from specifically selected feedstocks and dedicated refining

processes, and are designed to provide inkmakers with a number of significant benefits. Where a standard distillate may not exactly correspond to your formulation requirements, please do not hesitate to contact Haltermann Carless to discuss a custom product to match your needs.

## Packaging

All products are available direct from our refineries in bulk tanker or packed in drums. Other types of

packaging are available on request - please contact your nearest sales office.

Aniline Point	Refractive index nD20	Kinematic viscosity at 20 °C	Flash Point	Color
DIN ISO 2977 ASTM D611	DIN 51423-2	DIN EN ISO 3104 / ASTM D445	DIN EN 22719 ASTM D93	
°C		mm <sup>2</sup> /s (cSt)	°C	
77	1.449	4.0	> 100	virtually water white
82	1.450	4.5	> 100	virtually water white
86	1.452	5.0	> 120	virtually water white
88	1.453	6.8	> 125	virtually water white
84	1.423	1.9	> 65	clear water white
82	1.445	3.8	> 100	virtually water white
88	1.446	5.1	> 110	virtually water white
93	1.446	7.4	> 120	pale yellow
72	1.458	3.7	> 100	virtually water white
84	1.450	5.0	> 100	virtually water white
76	1.459	5.2	> 110	virtually water white
87	1.458	8.9	> 120	yellow
45	1.490	5.6	> 110	yellow
50	1.494	8.7	> 120	yellow

## Sales Contact

**Haltermann Carless  
Deutschland GmbH**

Schlangendeich 17  
21107 Hamburg  
Deutschland  
Phone: + 49 40 33318-0  
de@h-c-s-group.com

**Haltermann Carless  
France S.A.S.**

Zone d'Activités de la Baudrière n°1  
27520 Bourghtheroulde  
France  
Phone: +33 2 32 13 14 50  
france@h-c-s-group.com

**Haltermann Carless  
UK Ltd.**

Grove House  
Guildford Road  
Leatherhead  
Surrey KT22 9DF  
United Kingdom  
Phone: + 44 1372 360 000  
uk@h-c-s-group.com

**Haltermann Carless  
US Inc.**

22102 Highway 6,  
Manvel, TX 77578  
United States  
Phone: +1 832 237 0500  
us@h-c-s-group.com

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[www.haltermann-carless.com](http://www.haltermann-carless.com)