



**PETROCHEM
CARLESS**

Hydrocarbon

SOLVENTS

Petrochem Carless is a major producer of aromatic and aliphatic hydrocarbons, including special boiling point solvents (SBP's), special kerosines, white spirits and a full range of aromatic products.

Major outlets include the surface coatings, fuel additives, oilfield chemicals and adhesive industries.

The products are offered in drums, IBC and bulk deliveries by road, rail and sea.

Product range

Special Boiling Point Solvents

Special Boiling Point solvents (SBP's) are a group of aliphatic hydrocarbon products with narrow boiling ranges. These products are derived from naphtha feedstocks and are produced at our Harwich refinery. The low n-hexane grades are marketed under the **Clairsol™** trade name.

The products are widely used in the adhesive, rubber, pharmaceutical and surface coatings industries, as well as oil extraction.

White Spirit

White Spirit is a straight cut aliphatic hydrocarbon solvent, produced at Harwich to B.S. 245a.

The primary application is in surface coatings as a diluent for alkyd resins and as a general solvent in paints, varnishes and wood preservatives.

Special Kerosines

This product group includes both standard de-aromatised grades such as D-40 and D-60 which are marketed under the **Clairsol™** trade name, as well as a range of specially formulated kerosines manufactured to suit individual customer requirements, marketed under the **Presol™** trade name.

The **Clairsol™** range is widely used in formulations where low odour is important, such as polishes, hand cleaners and more recently in decorative paint formulations. These products are also ideal for use as heating and barbecue fuels.

Aromatics

The aromatics product group encompasses a wide range of Harwich-manufactured products, notably those marketed under the **Caromax™**.

The primary applications for the majority of these products are in fuel additives, oilfield chemicals, agrochemicals and surface coatings, where they are used as diluents and carriers as well as reaction media.

	ALIPHATICS			
	SPECIAL BOILING POINT SOLVENTS			
	LA PRS	SBP2	SBP3	SBP5
Density @15°C	0.729	0.691	0.723	0.714
Flash point Abel °C	16	<0	<0	<0
Aniline pt °C	66	67	65	68
Initial boiling point °C	126	68.5	104	91
Dry boiling point °C	143	94	121	105
Aromatics % vol	0.2	<0.1	<0.1	<0.1
Benzene content ppm	<1	15	<10	<10
n-Hexane content ppm	<0.001	21	0.15	1.8
Bromine index mg/100g	<500	<100	<100	195
Colour Saybolt	+30	+30	+30	+30
Refractive index @20°C	1.404	1.388	1.404	1.402
Litres/tonne	1372	1447	1383	1400

	ALIPHATICS			
	WHITE SPIRIT AND SPECIAL KEROSENES			
	Clairsol			
	310	330	350	360
Density @15°C	0.775	0.806	0.804	0.823
Flash point Abel °C	42	65*	76*	104*
Aniline pt °C	73.1	69.7	74.9	78.9
Initial boiling point °C	163	195	200	241
Dry boiling point °C	194	220	260	270*
Aromatics % vol	0.3	0.13	0.8	NIL
Benzene content ppm	0	0	0	0
n-Hexane content ppm	0	0	0	0
Bromine index mg/100g	<100	<100	<100	<100
Colour Saybolt	+30	+30	+30	+30
Refractive index @20°C	1.430	1.437	1.442	1.441
Litres/tonne	1290	1241	1244	1215

	AROMATICS				
	CAROMAX				
	15/18	16	18	19	20
Density @15°C	0.880	0.873	0.883	0.883	0.883
Flash point Abel °C	42	28	50	51	66
Mixed Aniline pt °C	11.5	10.6	12.6	13	14
Initial boiling point °C	152	141	170	172	183
Dry boiling point °C	180	180	181	195	208
Aromatics % vol	>99	>99	>99	>99	>99
Benzene content ppm	35	10	30	30	0
n-Hexane content ppm	N/A	N/A	N/A	N/A	N/A
Bromine index mg/100g	<500	<500	<500	<500	<500
Colour Saybolt	+30	+30	+30	+30	+30
Refractive index @20°C	1.502	1.499	1.502	1.504	1.504
Litres/tonne	1136	1145	1133	1133	1133

CAS SOLVENTS						
SBP6	15/4	15/12	16/3	21/20	20	CLAIRSON
0.767	0.699	0.748	0.729	0.790	0.720	
29	<0	2	4	64*	<0	
56	62.8	54.7	60.5	57.5	53.6	
142	52	120	110	181	60.5	
167	139	150	148	214	98.5	
17	0.8	12.6	2.0	24	<0.1	
40	<5	10	3	<5	<10	
0.002	8	<0.001	1	<10	1.2	
<500	<500	<500	<500	<500	150	
+30	+30	+30	+30	0.5L	+30	
1.430	1.394	1.418	1.406	1.445	1.404	
1304	1431	1337	1372	1266	1389	

			PETROLEUM ETHERS			
Odourless Kerosine	White Spirit	Presol 110	40/60	60/80	80/100	100/120
0.795	0.775	0.797	0.650	0.680	0.705	0.773
80*	39	47.5	<0	<0	<0	<0
75.0	56.8	61.0	65	63.6	67.6	65
205	153	160	40	65	80	102
240	198	281**	60	81	103	120
0.8	16.3	17	<0.1	<0.1	<0.1	0.1
0	9	1	5	1.5	10	<10
0	<10	<10	2	45.9%	9.5	0.15
<100	<500	<500	<50	<50	<100	<100
+30	+30	+25	+30	0.5L	+30	+30
1.441	1.432	1.448	1.369	1.381	1.395	1.402
1258	1290	1225	1538	1470	1418	1383

				NAPHTHA			
	24	26	28	12/50	15/55	16/80	20/30
88	0.905	0.910	0.991	0.814	0.808	0.849	0.8
*	70*	70*	111*	<0	2	27	39
	15	30	14	30.8	35.2	20.2	20
5	186	193	249	104	110	139	16
8	279	290	295	115	149	157	18
9	>99	83.6	>99	62	56	83	87
	0	0	0	10	10	15	30
A	N/A	N/A	N/A	1000	<10	5	10
00	<500	<500	<500	<100	<250	<100	<100
0	0.5†	0.5†	0.5†	+30	+30	+30	+30
07	1.527	1.524	1.581	1.460	1.456	1.483	1.4
26	1105	1099	1009	1228	1238	1178	11

	20N	50
	0.723	0.720
	<0	<0
	53.6	52.7
	58	88
	97.5	99
	<0.1	<0.1
	<10	<10
	0.8	0.8
	150	<50
	+30	+30
	1.404	1.406
	1383	1389

	HEXANE	PENTANE
20	65/70	75
	0.677	0.630
	<0	<0
	63	N/A
	64	30
	70	37
	0.02	<0.1
	0.02	3
	48.7	0.1
	5	<100
	+30	+30
	1.380	1.358
	1477	1587

	TOLUENE	XYLENE
0/85	65/70	75
0.867	0.869	0.871
5	5	27
8.5	8.5	9.5
110.5	110.5	139
110.8	110.8	142
99.9	99.9	99
8	8	5
2	2	N/D
N/D	N/D	N/D
+30	+30	+30
1.492	1.496	1.496
1151	1151	1148

* – Flash point, PMCC, °C

** – Final boiling point, °C

† – Colour D1500

N/D – Not detected

N/A – Not applicable

Product Range

Alcohols

Aliphatic Solvents

Amines

Aromatics

Automotive Products

Blends

Burning Oils

Chlorinated Solvents

Custom Processing

Drilling Mud Fluids

Esters

Glycols

Glycol Ethers/Esters

Ketones

Heat Transfer Fluids

Performance Fuels

Plasticisers

Printing Ink Distillates

Process Oils

Refinery Naphthas

Special Kerosines

Speciality Base Oils

White Oils

Other products



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