



Shell Chemicals



Data Sheet

Product Name

SHELLSOL D38

This product is manufactured at more than one production site. The sales specifications of these products are the same, some typical data however may differ. Click on the production site below to obtain the right datasheet:

[Lemont, IL](#)
[Cotton Valley, LA](#)



Data Sheet

Issued:
07-Apr-2005

Product Name

SHELLSOL D38

Product Code

Q3380 North America Lemont, IL

Product Category

Aliphatics (Mineral Spirits)

CAS Registry Number

64742-88-7

Description

SHELLSOL D38 is a narrow cut mineral spirit type hydrocarbon solvent manufactured to combine an improved flash point level with fast drying characteristics. The high degree of general refining gives this solvent its low level of impurities such as sulphur, olefins, benzene and total aromatics, and low odor.

Sales Specification

Property	Unit	Min	Max	Method
Color	Saybolt	28		ASTM D156
API Gravity @15.6°C	API	47.6	58.0	ASTM D4052
Copper Corrosion (3hr @100°C)			1	ASTM D130
Distillation, IBP	°C	148.9		ASTM D86
Distillation, DP	°C		185	ASTM D86
Aromatics	% v/v		1.0	ASTM D1319
Flash Point, TCC	°C	37.8		ASTM D56
Aniline Point	°C	57.2	76.7	ASTM D611

Product as produced complies with the Mil-PRF-680-Type I specifications.



Typical Properties	Property	Unit	Method	Value
	Color	Saybolt	ASTM D156	+30
	API Gravity	-	ASTM D287	50.8
	Density @15.6°C	lb/gal	Calculated	6.46
	Specific Gravity @15.6/15.6°C	-	Calculated	0.776
	Refractive Index @20°C	-	ASTM D1218	1.426
	Acidity as Acetic Acid	%wt	ASTM D1613	< 0.001
	Acidity Distillation Residue	-	ASTM D1093	Neutral
	Copper Corrosion (3hr @100°C)	-	ASTM D130	1A
	Doctor Test	-	ASTM D235	Negative
	Non Volatile Matter	g/100mL	ASTM D1353	< 0.001
	Distillation, IBP	°C	ASTM D86	159
	Distillation, 50%v	°C	ASTM D86	166
	Distillation, DP	°C	ASTM D86	181
	Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.21
	Vapor Pressure @20°C	mmHg	ASTM D5191	2.8
	Paraffins	%v/v	GC	42
	Naphthenes	%v/v	GC	57
	Aromatics	%v/v	ASTM D1319	< 0.2
	Benzene	ppm	GC	< 0.5
	Sulfur	ppm	ASTM D4045	< 1
	Flash Point	°C	ASTM D56	41
	Explosion Limit: Lower	%v/v	-	0.8
	Explosion Limit: Upper	%v/v	-	6.0
	Aniline Point (M=Mixed)	°C	ASTM D611	66
	Kauri-Butanol Value	-	ASTM D1133	34
	Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.9
	Viscosity @20°C	cSt	ASTM D445	1.19
Test Methods	<p>Copies of copyrighted test methods can be obtained from the issuing organisations:</p> <p>American Society for Testing and Materials (ASTM) : www.astm.org Energy Institute (IP) : www.energyinst.org.uk Deutsches Institut für Normung (DIN) : www.din.de</p> <p>Shell Method Series (SMS) methods are issued by Shell International Chemicals B.V., Shell Research and Technology Centre, Amsterdam, The Netherlands. Copies of SMS can be obtained through your local Shell Chemicals company.</p> <p>For routine quality control analyses, local test methods may be applied that are different from those mentioned in this datasheet. Such methods have been validated and can be obtained through your local Shell Chemicals company.</p>			



Quality	SHELLSOL D38 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.
Storage and Handling	Provided proper storage and handling precautions are taken we would expect SHELLSOL D38 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Material Safety Data Sheet on www.shell.com/chemicals
Hazard Information	For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals .
Contact	For further information, please visit our website at www.shell.com/chemicals , contact your local Shell representative, or call the 'Shell Chemicals' order center at 1 866 89 SHELL (1 866 897 4355).
Warranty	<p>All products purchased or supplied by Shell are subject to terms and conditions set out in the contract, order acknowledgment and/or bill of lading. Shell warrants that its product will meet those specifications designated as such herein or in other publications. All other information including that herein, supplied by Shell is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine the products suitability for a particular purpose. Shell makes no other warranty either expressed or implied, regarding such other information, the data upon which the same is based, or the results to be obtained from use thereof; that any products shall be merchantable or fit for any purpose; or that the use of such other information or product will not infringe any patent.</p> <p>The expression 'Shell Chemicals' refers to the companies of the Royal Dutch/Shell Group which are engaged in chemical businesses. Each of the companies which make up the Royal Dutch/Shell Group of companies is an independent entity and has its own separate identity.</p>
Trademark	SHELLSOL is a Shell Trademark.



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Issued:
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SHELLSOL D38

Product Code

Q3380 North America Cotton Valley, LA

Product Category

Aliphatics (Mineral Spirits)

CAS Registry Number

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Description

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Sales Specification

Property	Unit	Min	Max	Method
Color	Saybolt	28		ASTM D156
API Gravity @15.6°C	API	47.6	58.0	ASTM D4052
Copper Corrosion (3hr @100°C)			1	ASTM D130
Distillation, IBP	°C	148.9		ASTM D86
Distillation, 50%	°C		173.9	ASTM D86
Distillation, DP	°C		185	ASTM D86
Aromatics	% v/v		1.0	ASTM D1319
Flash Point, TCC	°C	37.8		ASTM D56
Aniline Point	°C	57.2	76.7	ASTM D611

Product as produced complies with the Mil-PRF-680-Type I specifications.



Typical Properties	Property	Unit	Method	Value
	Color	Saybolt	ASTM D156	+30
	API Gravity	-	ASTM D4052	56.3
	Density @15.6°C	lb/gal	ASTM D1250	6.27
	Specific Gravity @15.6/15.6°C	-	ASTM D1250	0.754
	Refractive Index @25°C	-	ASTM D1747	1.417
	Copper Corrosion (3hr @100°C)	-	ASTM D130	1A
	Distillation, IBP	°C	ASTM D86	151
	Distillation, 50%v	°C	ASTM D86	161
	Distillation, DP	°C	ASTM D86	181
	Aromatics	%v/v	ASTM D1319	0.4
	Flash Point	°C	ASTM D56	39
	Explosion Limit: Lower	%v/v	-	0.8
	Explosion Limit: Upper	%v/v	-	6.0
	Aniline Point (M=Mixed)	°C	ASTM D611	72
	Kauri-Butanol Value	-	ASTM D1133	31
Test Methods	<p>Copies of copyrighted test methods can be obtained from the issuing organisations:</p> <p>American Society for Testing and Materials (ASTM) : www.astm.org Energy Institute (IP) : www.energyinst.org.uk Deutsches Institut für Normung (DIN) : www.din.de</p> <p>Shell Method Series (SMS) methods are issued by Shell International Chemicals B.V., Shell Research and Technology Centre, Amsterdam, The Netherlands. Copies of SMS can be obtained through your local Shell Chemicals company.</p> <p>For routine quality control analyses, local test methods may be applied that are different from those mentioned in this datasheet. Such methods have been validated and can be obtained through your local Shell Chemicals company.</p>			
Quality	<p>SHELLSOL D38 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.</p>			
Storage and Handling	<p>Provided proper storage and handling precautions are taken we would expect SHELLSOL D38 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Material Safety Data Sheet on www.shell.com/chemicals</p>			
Hazard Information	<p>For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.</p>			
Contact	<p>For further information, please visit our website at www.shell.com/chemicals, contact your local Shell representative, or call the 'Shell Chemicals' order center at 1 866 89 SHELL (1 866 897 4355).</p>			



Warranty

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