



Shell Chemicals

Data Sheet

Product Name

ShellSol D60

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:

17-Oct-2008

Product Name

ShellSol D60

Product Code**Q3522****North America****Lemont, IL****Product Category****Aliphatics (Mineral Spirits)****CAS Registry Number**

64742-88-7

Description

ShellSol D60 is a medium evaporating, high flash mineral spirit type hydrocarbon solvent. 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. In general for transport, with a flash point >61°C, ShellSol D60 may be classified as combustible rather than as flammable liquid

Sales Specification

Property	Unit	Min	Max	Method
Density @15°C	kg/m ³	763	820	ASTM D4052
API Gravity @15.6°C	API	41.0	54.0	ASTM D4052
Specific Gravity @15.6°C		0.763	0.820	ASTM D4052
Color	Saybolt	28		ASTM D156
Copper Corrosion (3hr/100°C)			1	ASTM D130
Distillation, IBP	°C	176.7		ASTM D86
Distillation, DP	°C		212.8	ASTM D86
Aromatics	%v/v		1.0	ASTM D1319
Flash Point (TCC)	°C	61.1		ASTM D56
Aniline Point	°C		76.7	ASTM D611

Product as produced complies with the MIL-PRF-680B Type II specification.

Typical Properties	Property	Unit	Method	Value
	API Gravity	-	ASTM D4052	45.9
	Density @15°C	kg/l	ASTM D4052	0.798
	Density @15.6°C	lb/gal	ASTM D4052	6.65
	Specific Gravity @15.6/15.6°C	-	ASTM D4052	0.798
	Cubic Expansion Coefficient @20°C	(10 ⁻⁴)/°C	Calculated	10
	Refractive Index @20°C	-	ASTM D1218	1.440
	Color	Saybolt	ASTM D156	+30
	Copper Corrosion (3hr @100°C)	-	ASTM D130	1
	Distillation, IBP	°C	ASTM D86	193
	Distillation, DP	°C	ASTM D86	207
	Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.04
	Paraffins	% m/m	PIONA	42
	Naphthenes	% m/m	PIONA	58
	Aromatics	%v/v	ASTM D1319	0.1
	Flash Point	°C	ASTM D56	66
	Explosion Limit: Lower	%v/v	-	0.7
	Explosion Limit: Upper	%v/v	-	6
	Electrical Conductivity @20°C	pS/m	-	<1
	Aniline Point	°C	ASTM D611	69
	Kauri-Butanol Value	-	ASTM D1133	32
	Surface Tension @20°C	mN/m	Du Nouy ring	26
	Viscosity @25°C	mm ² /s	ASTM D445	1.8
	Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.6
	Hydrogen Bonding Index	-	-	0.0
	Fractional Polarity	-	-	0.0
	Molecular Weight	g/mol	Calculated	162
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</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 D60 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.			
Storage and Handling	<p>Provided proper storage and handling precautions are taken we would expect ShellSol D60 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	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 Chemicals are subject to terms and conditions set out in the contract, order acknowledgment and/or bill of lading. Shell Chemicals warrant that their product will meet those specifications designated as such herein or in other publications. All other information including that herein, supplied by Shell Chemicals 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 Chemicals make 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 Shell Group that are engaged in chemical businesses. Each of the companies that make up the 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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Sales Specification

Property	Unit	Min	Max	Method
Density @15°C	kg/m ³	763	820	ASTM D4052
API Gravity @15.6°C	API	41.0	54.0	ASTM D4052
Specific Gravity @15.6°C		0.763	0.820	ASTM D4052
Color	Saybolt	28		ASTM D156
Copper Corrosion (3hr/100°C)			1	ASTM D130
Distillation, IBP	°C	176.7		ASTM D86
Distillation, DP	°C		212.8	ASTM D86
Aromatics	%v/v		1.0	ASTM D1319
Flash Point (TCC)	°C	61.1		ASTM D56
Aniline Point	°C		76.7	ASTM D611

Product as produced complies with the MIL-PRF-680B Type II specification.

Typical Properties	Property	Unit	Method	Value
	API Gravity	-	ASTM D4052	50.1
	Density @15°C	kg/l	ASTM D4052	0.779
	Density @15.6°C	lb/gal	ASTM D4052	6.50
	Specific Gravity @15.6/15.6°C	-	ASTM D4052	0.780
	Cubic Expansion Coefficient @20°C	(10 ⁻⁴)/°C	Calculated	10
	Refractive Index @25°C	-	ASTM D1218	1.431
	Color	Saybolt	ASTM D156	+30
	Copper Corrosion (3hr @100°C)	-	ASTM D130	1
	Distillation, IBP	°C	ASTM D86	189
	Distillation, DP	°C	ASTM D86	207
	Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.04
	Paraffins	% m/m	PIONA	73
	Naphthenes	% m/m	PIONA	27
	Aromatics	%v/v	ASTM D1319	<0.1
	Flash Point	°C	ASTM D56	62
	Explosion Limit: Lower	%v/v	-	0.7
	Explosion Limit: Upper	%v/v	-	6
	Electrical Conductivity @20°C	pS/m	-	<1
	Aniline Point	°C	ASTM D611	75
	Kauri-Butanol Value	-	ASTM D1133	28
	Surface Tension @20°C	mN/m	Du Nouy ring	26
	Viscosity @25°C	mm ² /s	ASTM D445	1.6
	Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.6
	Hydrogen Bonding Index	-	-	0.0
	Fractional Polarity	-	-	0.0
	Molecular Weight	g/mol	Calculated	163
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</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>			
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Warranty	<p>All products purchased or supplied by Shell Chemicals are subject to terms and conditions set out in the contract, order acknowledgment and/or bill of lading. Shell Chemicals warrant that their product will meet those specifications designated as such herein or in other publications. All other information including that herein, supplied by Shell Chemicals 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 Chemicals make 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 Shell Group that are engaged in chemical businesses. Each of the companies that make up the Shell Group of companies is an independent entity and has its own separate identity.</p>
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