



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:

07-Apr-2005

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 |
|-------------------------------|-------------------|------------|------------|---------------|
| Color | Saybolt | 28 | | ASTM D156 |
| API Gravity @15.6°C | API | 41.0 | 54.0 | ASTM D4052 |
| Density @15°C | kg/m ³ | 763 | 820 | ASTM D4052 |
| Specific Gravity @15.6°C | | 0.763 | 0.820 | ASTM D4052 |
| 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-680 Type II specification.

| Typical Properties | Property | Unit | Method | Value |
|---------------------|---|---------------------------------------|------------|----------|
| | Color | Saybolt | ASTM D156 | +30 |
| | API Gravity | - | ASTM D287 | 46.4 |
| | Density @15.6°C | lb/gal | Calculated | 6.61 |
| | Specific Gravity @15.6/15.6°C | - | Calculated | 0.795 |
| | Refractive Index @20°C | - | ASTM D1218 | 1.432 |
| | 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 | 196 |
| | Distillation, 50%v | °C | ASTM D86 | 198 |
| | Distillation, DP | °C | ASTM D86 | 208 |
| | Relative Evaporation Rate (nBuAc=1) | - | ASTM D3539 | 0.08 |
| | Vapor Pressure @20°C | mmHg | ASTM D5191 | < 1 |
| | Vapor Pressure (Reid) | psi | - | 0.15 |
| | Paraffins | %v/v | GC | 50 |
| | Naphthenes | %v/v | GC | 50 |
| | Aromatics | %v/v | ASTM D1319 | 0.6 |
| | Sulfur | ppm | ASTM D4045 | < 1 |
| | Flash Point | °C | ASTM D56 | 66 |
| | Explosion Limit: Lower | %v/v | - | 0.7 |
| | Explosion Limit: Upper | %v/v | - | 6 |
| | Aniline Point (M=Mixed) | °C | ASTM D611 | 71 |
| | Kauri-Butanol Value | - | ASTM D1133 | 31 |
| | Hildebrand Solubility Parameter | (cal/cm ³) ^{1/2} | - | 7.7 |
| | Viscosity @20°C | cSt | ASTM D445 | 1.72 |
| Test Methods | Copies of copyrighted test methods can be obtained from the issuing organisations: | | | |
| | 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 | | | |
| | 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. | | | |
| | 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. | | | |

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|-----------------------------|---|
| Quality | SHELLSOL D60 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 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 |
| 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> |
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Issued:

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Product Name**SHELLSOL D60****Product Code****Q3522 North America Cotton Valley, LA****Product Category****Aliphatics (Mineral Spirits)****CAS Registry Number**

64742-88-7

Description

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Sales Specification

| Property | Unit | Min | Max | Method |
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| Density @15°C | kg/m ³ | 763 | 820 | ASTM D4052 |
| Specific Gravity @15.6°C | | 0.763 | 0.820 | ASTM D4052 |
| 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-680 Type II specification.

| Typical Properties | Property | Unit | Method | Value |
|-----------------------------|--|-------------|---------------|--------------|
| | Color | Saybolt | ASTM D156 | +30 |
| | API Gravity | - | ASTM D4052 | 52.0 |
| | Density @15.6°C | lb/gal | ASTM D1250 | 6.42 |
| | Specific Gravity @15.6/15.6°C | - | ASTM D1250 | 0.771 |
| | Refractive Index @25°C | - | ASTM D1218 | 1.427 |
| | Copper Corrosion (3hr @100°C) | - | ASTM D130 | 1A |
| | Distillation, IBP | °C | ASTM D86 | 185 |
| | Distillation, 50%v | °C | ASTM D86 | 196 |
| | Distillation, DP | °C | ASTM D86 | 210 |
| | Aromatics | %v/v | ASTM D1319 | 0.4 |
| | Flash Point | °C | ASTM D56 | 62 |
| | Explosion Limit: Lower | %v/v | - | 0.7 |
| | Explosion Limit: Upper | %v/v | - | 6 |
| | Aniline Point (M=Mixed) | °C | ASTM D611 | 75 |
| | Viscosity @37.8°C | cSt | ASTM D445 | 1.25 |
| 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 D60 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 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 | | | |
| 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). | | | |
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Warranty

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.

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