



2780 Waterfront Pkwy. E. Dr. Suite 200 Indianapolis, IN 46214
Phone: 317-328-5660 Fax: 317-328-5668 Sales: 1-800-437-3188 www.calumetspecialty.com

Product Data Sheet

If you have questions regarding this product, please contact your Sales Representative.
Customer Service and Technical Service can be reached at 1-800-437-3188

Product: **VERSAGEL® MN 1600**
Revised
HazMat Name: **Non-Regulated**

Product Code: **PEN3926-00-C-DR**

<u>Test</u>	<u>UOM</u>	<u>Method</u>	<u>MIN</u>	<u>MAX</u>	<u>Typical</u>
VISCOSITY @ 25°C, T-C	cPs	D2983	265000.00	339000.00	289580.00
API GRAVITY		D1298			33.2
SPECIFIC GRAVITY @ 25/25°C		D4052			.8542
COLOR, SAYBOLT		D156	20		29
APPEARANCE, SLIGHT HAZE		VISUAL	PASS		PASS

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Calumet's sampling and testing procedures in effect at the time of production will be used for certification testing. Results may be based on tank certification, manufacturing data, periodic testing and/or most recent product restock. Results only represent the values one would expect if the product was tested in our laboratories with our test methods on the specified date. The typical values of product properties are not frequently measured and are not based on a statistically relevant number of tests. Calumet does not represent that the typical values contained on this data sheet represent the values in the product supplied to the user. The information in this document relates only to the named product. The user is solely responsible for determining the suitability of the product for its use intended by user, including use in any process and the combination of the product with any other material.



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Product: **VERSAGEL® MN 1600 T**
Revised **01/07/2015**
HazMat Name: **Non-Regulated**

Product Code: **PEN3926-02-C-DR**

<u>Test</u>	<u>UOM</u>	<u>Method</u>	<u>MIN</u>	<u>MAX</u>	<u>Typical</u>
VISCOSITY @ 25°C, T-C	cPs	D2983	265000	339000	289200
API GRAVITY		D1298			33.4
SPECIFIC GRAVITY @ 25/25°C		D4052			.8540
COLOR, SAYBOLT		D156	20		30
APPEARANCE, SLIGHT HAZE		VISUAL	PASS		PASS

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For sample requests, click here >

138 Petrolia St Karns City, PA 16041
Phone: 800-245-3952 or 724-756-0110 Fax: 724-756-1050
Email: penreco@clmt.com Web: www.penreco.com

INTELLIGENT GEL TECHNOLOGY PRODUCT SPECIFICATIONS

Table with columns: Viscosity @ 25° C (cps), Viscosity @ 110° C (cps), Viscosity @ 130° C (cps), Specific Gravity @ 25° C, Saybolt Color D-156, Flash Point ° C ASTM D-92. Rows include Versagel® M (Mineral Oil), Versagel® MC (Isohexadecane), Versagel® MD (Isododecane), Versagel® ME (Hydrogenated Polyisobutene), Versagel® MG (Hydrogenated Poly), Versagel® ML (C12-C15 Alkyl Benzoate), Versagel® MN (Isononyl Isononanoate), Versagel® MP (Isopropyl Palmitate), Versagel® P (Petrolatum), Versagel® S (Hydrogenated Polyisobutene), and Versagel® SQ (Squalane).

Manufacturing specifications are confirmed upon request.

Penreco specializes in NICHE PRODUCT BLENDING to meet customer specific requirements.

Regulatory Information

- See Safety Data sheet for additional health, safety and disposal information.

Product Specifications are subject to change. All product sales are subject to the applicable terms and conditions.

Rev 06/16

Calumet Penreco, LLC is a wholly owned subsidiary of Calumet Specialty Products Partners, L.P.

Hydrocal Calsol™ Calpro Calpar Orchex® Versagel® Synergel® Drakesol Conosol® MagicSol® Drakeol® Parol® Inkol® Draketex Penetec®



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VERSAGEL® APPLICATIONS

	M	MC	MD	ME	MG	ML	MN	MP	P	S	SQ
Cosmetics/Make-Up	✓		✓		✓	✓	✓	✓		✓	✓
Facial Scrubs		✓		✓			✓				
Mascara		✓	✓								
Body Lotions/Oil Gels	✓	✓		✓			✓	✓	✓	✓	✓
Massage Oil Gels		✓		✓	✓			✓			✓
Body Glitter			✓								
Moisturizers (Shower/Facial)		✓		✓	✓			✓	✓		✓
Baby Care/Oil Gels	✓			✓					✓		
Hair Conditioners	✓				✓	✓					✓
Ethnic Hair Gels		✓									
Pharmaceutical						✓			✓		
Antiperspirants/Deodorants						✓				✓	
Lip Gloss				✓	✓	✓	✓	✓		✓	✓
Lip Balms	✓								✓	✓	
Lipstick			✓		✓		✓		✓	✓	✓
Lip Liner			✓								
Sunscreens						✓	✓			✓	
Suntan Oil		✓		✓		✓	✓	✓		✓	

ISSUED VERSAGEL® PATENTS

Health & Beauty Aid Compositions

- United States 5,221,534 (Jun. 22, 1993)
 - Europe 626,855 (Jan. 17, 2001)
 - Canada 2,128,423 (Jun. 15, 1999)
 - Japan 2,921,986 (Apr. 30, 1999)

Solid & Semi-Solid Hydrocarbon Gels

- United States 6,340,467 (Jan. 22, 2002)
 - Australia 717,789 (Jul. 13, 2000)
 - New Zealand 313,378 (Jul. 6, 2000)
 - Singapore 561,121 (Nov. 16, 1999)

Hydrocarbon Gels as Suspending and Dispersing Agents

- United States 6,433,068 (Aug. 13, 2002)
 - Australia 734,440 (Sep. 27, 2001)

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