

**Lubrizol**

FILTRATION SPECIALTY PAPER



# PRODUCT SELECTION GUIDE

FILTRATION, CONSTRUCTION &  
SPECIALTY PAPER APPLICATIONS



# LUBRIZOL

INNOVATIVE TECHNOLOGIES.  
CUSTOMER FOCUSED SOLUTIONS.

### **Environmentally-Conscious, Formaldehyde-Free Technology**

Lubrizol's extensive portfolio of polymers and custom-formulated solutions include an excellent choice of environmentally-conscious, formaldehyde-free options within our Hycar<sup>®</sup>, Vycar<sup>®</sup> and Sancure<sup>®</sup> product lines.

### **Custom Tailored Solutions**

Contrary to a "one size fits all" approach when making product recommendations, our application experts are well skilled in putting together custom solutions that meet a customer's unique requirements. Their market-by-market knowledge of what works best for a specific end-use is further reinforced by the extensive testing conducted at Lubrizol, using the same testing methodology as our customers.

### **Customer-Driven R & D**

Lubrizol research scientists use statistical modeling and have access to virtually thousands of monomer combinations, providing them with the right tools for continuous innovation. If the right solution for a given market application cannot be drawn from Lubrizol's existing choice of product offerings, our R & D team stands ready to either modify existing technology or forge a new product advancement to better meet the customer need.





# SPECIALTY PAPER MARKET SEGMENT

LUBRIZOL PRODUCT	APPLICATION METHOD					TYPICAL PHYSICAL PROPERTIES						TYPICAL PERFORMANCE PROPERTIES													
	SATURANT/BINDER	BARrier	DURABILITY EXTENDER	PRINTABLE	RELEASE	BEATER ADDITION	Tg°C	SOLIDS (%)	pH	VISCOSITY (cP)	HEAT REACTIVE	CARBOXYLATED	TENSILE	SHEAR STABLE	SOLVENT RESISTANCE	WATER RESISTANCE	TEAR RESISTANCE	BLOCK RESISTANCE	INTERNAL BOND	MIT FOLD	MULLEN BURST	CREASE DURABILITY	UV STABILITY	HEAT STABLE	
CARBOBOND 26373	✓						5	58	3	90	✓	✓				●			●						
CARBOBOND 26387	✓					✓	-23	61	5	275	✓	✓	○	●	○	●	○	○	●						●
CARBOCURE TSR-72	✓						72	35	4.6	50	✓	✓	●		●	○									
HYCAR 26083	✓					✓	-15	53	6	55	✓	✓	○	●	○	○	●	●	●	○	●			●	●
HYCAR 26084	✓		✓	✓			8	48	6.1	110	✓	✓	○	●	●	○	○	○	○	○	○	●		●	●
HYCAR 26091	✓				✓		20	50	6.8	35	✓	✓	●	●	●	○	○	○	●	●			●	●	●
HYCAR 26106	✓						29	50	5	80	✓	✓	●		○	○	○						●	●	●
HYCAR 26120	✓					✓	-11	50	3.8	115	✓		●	●	●	●	○			●	●	●	●	●	●
HYCAR 26138	✓		✓	✓	✓		25	49	5.5	60	✓		●		●	●		●				●		●	●
HYCAR 26288	✓						20	49	4	60	✓	✓				●								○	○
HYCAR 26315	✓						55	50	2.1	36	✓	✓	●		○	●							●		●
HYCAR 26322	✓						-15	51	4	40			●		○	○	●		○				●	●	●
HYCAR 26345	✓		✓			✓	-6	50	3.6	20	✓	✓	●	●	●	○			●	●	●		●	●	●
HYCAR 26348	✓				✓		30	49	6	200	✓		○	●	●	○	○	○	●	●					●
HYCAR 26349	✓		✓				12	49	4.6	135	✓		●		●	○		○				●	●		●
HYCAR 26362	✓		✓			✓	15	43	6	95	✓	✓			●	○		●					●		●
HYCAR 26391	✓	✓					36	50	3.6	125	✓	✓	●		○	●							●		●
HYCAR 26450	✓						32	46	4	25	✓	✓	●		●	○							●		●
HYCAR 26459	✓						105	45	3.3	30		✓			●			●							●
HYCAR 26469	✓						-4	48	5	13		✓	●	○	○	○			●				●	●	●
HYCAR 26477	✓		✓			✓	-20	48	5.7	125	✓		●	●	○	●	●	○	○	○	○	○	○	○	○
HYCAR 26523					✓		27	42	5.2	17					●										
HYCAR 26552	✓						-15	47	4.5	110		✓	●	●	○	●							○		●
HYCAR 2671	✓		✓	✓		✓	-11	53	5	170	✓	✓	●	●	●	○	○	○	●	●	●	●	●	●	●
HYCAR 2679	✓		✓	✓			-3	49	3.7	100	✓	✓	●	○	●	○		○				●	●	●	●
HYCAR 26796	✓						0	48	5	120	✓	✓	●	●	●							●	●	●	●
HYCAR 26869S	✓	✓					29	48	6	200	✓		●	○	●	●							●		●
HYCAR 26907	✓						31	48	6	100		✓	●		●										●
HYCAR FF-26903	✓		✓			✓	29	47	8	120			●		●										●
HYCAR FF-26916	✓		✓	✓		✓	2	50	8.5	65			●				●							●	●
HYCAR FF-26920	✓		✓				29	44	8.5	105			●		●										○
HYCAR FF-26921	✓		✓				29	44	8	65			●		●										●
HYSTRETCH V-29	✓						-29	49	8	70	✓	✓	○	●	○	○					●	○		●	●
HYSTRETCH V-43	✓						-43	50	8.5	200	✓	✓	●	●	○	○							○		●
HYSTRETCH V-60	✓						-60	51	7.1	40	✓	✓	●												●
VYCAR 352					✓		69	57	10	20			○	●	○	○	○	○	○	○	○	○	○	○	○
VYCAR 460X46		✓	✓	✓			7	49	7	35	✓	✓		○	●	○							○		●
VYCAR 460X90	✓						73	51	5	20	✓	✓	●		●										●
VYCAR 580X180	✓						-12	55	10	40			○	●	○	○	○	○	○	○	○	○	○	○	○
VYCAR VA-0450	✓						32	45	3	300	✓		○					○							○

Good ○ Very Good ●



## SPECIALTY PAPER ADDITIVES

PRODUCT	APE-FREE	% ACTIVE	POTENTIAL APPLICATIONS/PERFORMANCE
CARBOPOL EP-1	✓	30	Alkali-swellable emulsion thickener for water based coatings. High efficiency, short rheology, develops viscosity upon addition of neutralizing base.
CARBOPOL EP-2	✓	18	Alkali-swellable emulsion thickener for water based coatings. High efficiency, imparts longer flow than Carbopol EP-1 to control penetration, develops viscosity upon addition of neutralizing base.
SOLSPERSE 20000		100	Solsperse® Hyperdispersants may be used to improve the dispersment of fibers in wet-laid processing; improve filler wetting and storage stability of highly filled polymers and coatings.
SOLSPERSE 27000	✓	100	
SOLSPERSE 40000	✓	85	
SOLSPERSE 47000		40	



## SANCURE® POLYURETHANES

PRODUCT	SOLIDS (%)	pH	VISCOSITY (cP)	VOC (G/L)	100% MODULUS (psi)	TENSILE STRENGTH (psi)	ELONGATION AT BREAK (%)	DESCRIPTION/SUGGESTED USES
SANCURE 861	40	8	650	30	650	2600	580	Soft, durable adhesives; low VOCs; for use in nonwoven and other flexible applications.
SANCURE 2715	38	9	750	31	1100	3300	425	Firm, hard, low VOCs; tough film with fast property development; medium hard aliphatic polyurethane.
SANCURE 12929	40	8	1000	263	220	2300	723	Soft texture; chemical and solvent resistance; humidity and water resistance.
SANCURE 20025F	48	8	500	27	300	4100	1000	Low VOC, elastic polymer; good heat stability.
SANCURE 20048	38	8	100	62	1800	2100	165	Flame retarding properites; REACH compliant.



PASSPORT



Departure / Sortir

LEAVE TO ENTER FOR EX-MILITARY EMPLOYMENT AT ALL PORTS OF ENTRY IS PROHIBITED

Entry / Entrée

22 JUN

#### **NORTH AMERICA**

##### **GLOBAL HEADQUARTERS**

Lubrizol Advanced Materials, Inc.  
9911 Brecksville Road  
Brecksville, OH 44141 USA  
+1.216.447.5000

#### **ASIA-PACIFIC**

Lubrizol Specialty Chemicals  
(Shanghai) Co., Ltd  
10/F, Park Center International  
No. 1088 Fang Dian Road  
Shanghai 201204, PR China  
+8621-3866-0366

#### **SOUTH AMERICA**

Lubrizol do Brasil Aditivos Ltda  
Av. Fagundes Filho, 134-cj. 101  
Sao Paulo – SP  
04304-000 Brasil  
+55.11.4082.1330

#### **EUROPE**

Lubrizol Limited  
PO Box 42, Hexagon Tower  
Blackley, Manchester  
M9 8ZS United Kingdom  
+44 161 721 6800

Visit us at:  
[www.lubrizolcoatings.com](http://www.lubrizolcoatings.com)

Trademarks owned by The Lubrizol Corporation  
© The Lubrizol Corporation 2011, All Rights Reserved.  
FSPGD December 2011

The Lubrizol logo features the word "Lubrizol" in a bold, italicized, sans-serif font. A blue swoosh underline is positioned beneath the letters "i", "z", "o", and "l".