



EVONIK
INDUSTRIES

Materials for the Silicone Rubber Industry

Industry Information 2247



Explore our broad range of products for the Silicone Rubber Industry

Silica	Typical Physico-Chemical Data						Hydrophilic	Hydrophobic	RTV-1 One Pack System			
	Specific surface area m ² /g (BET)	% SiO ₂ based on ignited material	%TiO ₂	% Moisture	% C-content	Tapped Density g/L ⁴			Thixotropy	Reinforcement	Transparency	
									5-10	5-10	5-10	
Typical concentration %										5-10	5-10	5-10
Fumed Silica												
AEROSIL® OX 50	50	>99.8		≤1.5		130	X		•			
AEROSIL® 130	130	>99.8		≤1.5		50	X		+	+		
AEROSIL® 150	150	>99.8		≤1.5		50	X		++	++		
AEROSIL® 200	200	>99.8		≤1.5		50	X					
AEROSIL® 255	255	>99.8		≤1.5		50	X					
AEROSIL® 300	300	>99.8		≤1.5		50	X					
AEROSIL® 380	380	>99.8		≤2.0		50	X					
AEROSIL® R 972	110	>99.8		≤0.5	0.6-1.2	50		X	++	++		
AEROSIL® R 974	170	>99.8		≤0.5	0.7-1.3	50		X	++	++	+	
AEROSIL® R 104	150	>99.8		≤0.5	1.0-2.0	50		X	+		+	
AEROSIL® R 106	250	>99.8		≤0.5	1.5-3.0	50		X	+		++	
AEROSIL® R 812 S	220	>99.8		≤0.5	3.0-4.0	60		X	•	•	++	
AEROSIL® R 8200	160	>99.8		≤0.5	2.0-4.0	140		X	•	•		
AEROXIDE® TiO ₂ P 25 ³	50		>99.5	≤1.5		130	X					
AEROXIDE® TiO ₂ PF 2 ³	57		94	≤2.0		80	X					
Specialty Silica												
SIPERNAT® 120	130	≥97		≤6		180	X					
SIPERNAT® 160	170	≥97		≤4		80	X					
SIPERNAT® 218	160	≥97		≤7		80	X					
SIPERNAT® 236	180	≥97		≤7		85	X					
SIPERNAT® 268	185	≥97		≤7		85	X					
SIPERNAT® 288	195	≥97		≤7		80	X					
SIPERNAT® 298	200	≥97		≤7		80	X					
SIPERNAT® 320 DS	180	≥97		≤6		90	X					
SIPERNAT® D 17	95	≥97		≤6	1.3-2.1	150		X	+	++	+	

Silanes	Chemical Structure	Adhesion Promoter			Cross Linker		
		RTV-1C		RTV-2C	RTV-1C	RTV-2C	
		Acetoxy	Alcoxy	Oxime			
Typical concentration %		1-3	1-3	1-3	1-3	2-5	0.5-3
Dynasylan® AMEO	Aminopropyltriethoxysilane		++	+	+		
Dynasylan® BDAC	Di-tert-butoxydiacetoxysilane	+					
Dynasylan® DAMO-T	Diamino-functional propyltrimethoxysilane		++	++	+		
Dynasylan® TRIAMO	Triamino-functional propyltrimethoxysilane		+	++	+		
Dynasylan® 1146	Functional oligosiloxane		++	++	++		
Dynasylan® SIVO 203	Functional oligosiloxane		+	++	++		
Dynasylan® A	Tetraethyl orthosilicate						++
Dynasylan® P	Tetra-n-propyl orthosilicate						+
Dynasylan® 40	Ethyl polysilicate						+
Dynasylan® VTMO	Vinyltrimethoxysilane					++	+
Dynasylan® HMDS	Hexamethyldisilazane						

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Europe / Middle-East /
Africa / Latin America

Evonik Resource Efficiency GmbH

Business Line Silica
Rodenbacher Chaussee 4
63457 Hanau
Germany

PHONE +49 6181 59-12532
FAX +49 6181 59-712532
ask-si@evonik.com
www.evonik.com

North America

Evonik Corporation

Business Line Silica
299 Jefferson Road
Parsippany, NJ 07054-0677
USA

PHONE +1 800 233-8052
FAX +1 973 929-8502
ask-si-nafta@evonik.com

Asia Pacific

Evonik (SEA) Pte. Ltd.

Business Line Silica
3 International Business Park
#07-18, Nordic European Centre
Singapore 609927

PHONE +65 6809-6877
FAX +65 6809-6677
ask-si-asia@evonik.com

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