

VIALKYD[®] VAC 4309/70SNA

Technical Datasheet

TYPE

Fatty acid modified, non-drying phthalic resin

FORM OF DELIVERY (f.o.d.)

RESIN COMPOSITION

70 % in solvent naphtha 150/180 (70SNA) (containing also 4 % xylene)

SPECIAL PROPERTIES AND USE

Grinding resin for pigment pastes. Excellent compatibility characteristics with alkyd stoving paints, thermosetting acrylic paints, NC-lacquers, acid curing enamels, alkyd- or acrylic-isocyanate enamels.

DILUTABILITY

(approx.)			special white spirit 100/140	- '	isobutyl ketone			•
43 % saturated fatty acids (as triglycerides) 33 % phthalic anhydride			white spirit turpentine oil xylene	• methox	ypropyl acetate ypropanol			•
PRODUCT DATA			solvent naphtha 180/210 acetone	ethanolbutanol				•
Determined per batch:			 = unlimited dilutability 	• = li	imited dilutability			
Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity 53 % solvent naphta 150/180 (100 1/s; 23 °C)	[mPa.s]	230 - 390	• = substantial dilutability	O = v	very limited or no	diluta	bility	1
lodine Colour Number DIN 6162 iodine colour number		<= 5	COMPATIBILITY					
Acid Value DIN EN ISO 2114			% Vialkyd VAC 4309		90 75		25	10
acid value	[mg KOH/g]	< 10	% other binder		10 25	50	75	90
(non volatile matter)			Vialkyd AF 724, AS 673m		0 0	0	0	0
Non-Volatile Matter DIN 55671			Alkyd resins			•	•	•
non-volatile matter (120 °C; 5 min)	[%]	68 - 72	Vialkyd AL 504, AC 451n Vialkyd AR 340, AR 427, AC 274	1				
(120 C, 5 mm)			Acrylic resins	T		-	-	-
Not continually determined:			Viacryl SC 420		• 0	0	0	0
			Amino resins					
Non-Volatile Matter DIN EN ISO 3251 non-volatile matter	[%]	68 - 72	Viamin HF 164, HF 244		• •	•	•	•
(1 h; 125 °C; 1 g)	[,0]	00 /1	Viamin HP 364 Maprenal MF 650					
Hydroxyl Value DIN 53240			Other binder			-	-	-
hydroxyl value	[mg KOH/g]	130	Desmodur L, Desmodur N		• •	•	٠	•
approx.			Maleic resins, e.g. Alresat KM 2	• •	٠	٠	•	
(solid matter content)			nitrocellulose, e.g. 27 E, 9 E		• •	•	•	•
Density (Liquids) DIN EN ISO 2811-2			celluloseacetobutyrate, e.g. CA	B-551-0.2	• •	• 0	•	•
density approx.	[g/cm³]	1,04	Beckopox EP 304, EP 307 Duroxyn EF 900, EF 935			-	0	0
(20 °C)			,				-	-
Flash Point DIN EN ISO 1523			• = definite compatibility O = very limited or no compatibility				ity	
flash point approx.	[°C]	45						

5.0/18.06.2020 (replaces version 4.0)

Worldwide Contact Info: www.allnex.com

Disclaimer: allnex Group companies ('allnex') exclude all liability with respect to the use made by anyone of the information contained herein. The information contained herein represents allnex's best knowledge but does not constitute any express or implied guarantee or warranty as to the accuracy, the completeness or relevance of the data set out herein. Nothing contained herein shall be construed as conferring any license or right under any patent or other intellectual property rights of allnex or of any third party. The information relating to the product si given for information purposes only. No guarantee or warranty is provided that the product and/or information is suitable for any specific use, performance or result. Any unauthorized use of the product or information may infringe the intellectual property rights of allnex, including its patent rights. The user should perform his/her own tests to determine the suitability for a particular purpose. The final choice of use of a product and/or information as well as the investigation of any possible violation of intellectual property rights or misappropriation of trade secrets of allnex and/or third parties remain the sole responsibility of the user. Notice: Trademarks indicated with * , TM or * as well as the allnex name and logo are registered, unregistered or pending trademarks of Allnex Netherlands B.V. or its directly or indirectly affiliated allnex Group companies. ©2020 allnex Group. All Rights Reserved.



VIALKYD[®] VAC 4309/70SNA

SUGGESTED USES

Vialkyd VAC 4309 has been designed as grinding resin for the formulation of pigment pastes.

The pastes can be reduced with the respective resins and give paints keeping their basic paint properties. Vialkyd VAC 4309 has a balanced functionality and is fully integrated into the cured film. Therefore, it must be fully considered as resin component for reaction with amine resins, polyisocyanates, nitrocellulose systems and acid curing systems.

Vialkyd VAC 4309 shows yellowing resistance up to 30 min / 180 °C and acts up favourably to top quality alkyd resins. Solvent resistance is not adversely affected.

Owing to the excellent performance of Vialkyd VAC 4309 in a variety of paint formulations and due to the fact that Vialkyd VAC 4309 does not subdue the characteristics of the main binder, paint preparation can be substantially rationalized with this new grinding medium.

PROCESSING

The low viscosity of Vialkyd VAC 4309/70SNA allows processing on any modern milling facilities. The pigment pastes have good storage stability for long periods.

STORAGE

At temperatures up to 25 $^{\circ}\mathrm{C}$ storage stability packed in original containers amounts to at least 730 days.

DISTINGUISHING FEATURES

Vialkyd VAC 4309/70SNA is similar in the application with Vialkyd AC 290/70MPAC. Stoving Paints with stoving conditions under 30 min / 130 °C indicate slightly higher hardness with Vialkyd VAC 4309/70SNA.

Producer:

Desmodur L, Desmodur N (Covestro) CAB-551-0.2 (Eastman)

5.0/18.06.2020 (replaces version 4.0)

Worldwide Contact Info: www.allnex.com

Disclaimer: allnex Group companies ('allnex') exclude all liability with respect to the use made by anyone of the information contained herein. The information contained herein represents allnex's best knowledge but does not constitute any express or implied guarantee or warranty as to the accuracy, the completeness or relevance of the data set out herein. Nothing contained herein shall be construed as conferring any license or right under any patent or other intellectual property rights of allnex or of any third party. The information relating to the products is given for information purposes only. No guarantee or warranty is provided that the product and/or information is suitable for any specific use, performance or result. Any unauthorized use of the product or information infringe the intellectual property rights of allnex, including its patent rights. The user should perform his/her own tests to determine the suitability for a particular purpose. The final choice of use of a product and/or information as well as the investigation of any possible violation of intellectual property rights or misappropriation of trade secrets of allnex and/or third parties remain the sole responsibility of the user.

Notice: Trademarks indicated with *, TM or * as well as the allnex name and logo are registered, unregistered or pending trademarks of Allnex Netherlands B.V. or its directly or indirectly affiliated allnex Group companies. ©2020 allnex Group. All Rights Reserved.