



Personal Care Solutions

# ACULYN™ Rheology Modifier Product Selection Guide

## More Than Just a Thickener

Skin Care/ Body Care Guide*	Suspension	Viscosity Build	Emulsifier Free
<b>Creams</b>		1–3% ACULYN™ 22 1–2% ACULYN™ 28	3–6% ACULYN™ 88
<b>Lotions</b>		1–2% ACULYN™ 22 1–2% ACULYN™ 28	2–3% ACULYN™ 88
<b>Shower Gels</b>	5–8% ACULYN™ 38 4–8% ACULYN™ Excel	2–4% ACULYN™ 22 3–5% ACULYN™ 28	
<b>Foaming Facial Cleansers</b>	5–8% ACULYN™ 38 4–8% ACULYN™ Excel	3–4% ACULYN™ 28 3–5% ACULYN™ 88	5% ACULYN™ 22 3–5% ACULYN™ 88
<b>Liquid Antiperspirants</b>		1–5% ACULYN™ 44	
<b>Alpha Hydroxy Acids</b>		1–5% ACULYN™ 46N	
<b>Hydroalcoholic Hand Sanitizers</b>		5–10% ACULYN™ 38 5–10% ACULYN™ 88	

Sun Care Guide*	Suspension	Viscosity Build	Emulsifier Free
<b>Creams</b>	4–6% ACULYN™ 38	2–4% ACULYN™ 22 2–5% ACULYN™ 38	3–6% ACULYN™ 88
<b>Lotions</b>	3–5% ACULYN™ 38	2–4% ACULYN™ 22 2–5% ACULYN™ 28	2–3% ACULYN™ 88
<b>Sprays</b>	2–3% ACULYN™ 38	1–2% ACULYN™ 38	

Hair Care (Shampoos & Conditioners) Guide*	Suspension	Low Viscosity	High Viscosity
<b>Shampoos</b>	5–7% ACULYN™ 38 4–8% ACULYN™ Excel	2–4% ACULYN™ 22 2% ACULYN™ 38	4–8% ACULYN™ 22 4–8% ACULYN™ 28
<b>Baby Shampoos</b>		3–5% ACULYN™ 22	5–7% ACULYN™ 28
<b>Sulfate-free Shampoos</b>	4–8% ACULYN™ Excel	3–4% ACULYN™ 22	4–5% ACULYN™ 22
<b>Conditioners</b>		1–2% ACULYN™ 46N	3–5% ACULYN™ 46N

Hair Styling*	Bubble Suspension	Rich Feel	Emulsifier Free
<b>Gels in Jars/Tubes</b>	6% ACULYN™ 88 5–6% ACULYN™ 88+ 0.2–0.5% Laponite	4–6% ACULYN™ 88	4–6% ACULYN™ 28
<b>Sprays</b>		1–2% ACULYN™ 38	3–4% ACULYN™ 28 4–6% ACULYN™ 38

Hair Colorants*	Viscosity Build
<b>2-Part Hair Dyes</b> (developer phase)	5–15% ACULYN™ 38 5–10% ACULYN™ 88

\*Dosages Rates: % polymer as supplied

## ACULYN™ Rheology Modifier Product Selection Guide

Physical and Chemical Characteristics	ACULYN™ Excel	ACULYN™ 22	ACULYN™ 28	ACULYN™ 38	ACULYN™ 44	ACULYN™ 46N	ACULYN™ 88
<b>Description</b>	<ul style="list-style-type: none"> <li>Excellent suspension for clear cleansing formulations</li> </ul>	<ul style="list-style-type: none"> <li>Very good thickener for non-sticky gel texture</li> <li>Primary emulsifier in surfactant-free emulsions</li> </ul>	<ul style="list-style-type: none"> <li>General purpose thickener</li> <li>Excellent polymeric emulsifier</li> </ul>	<ul style="list-style-type: none"> <li>Excellent suspension for thin pour formulations</li> </ul>	<ul style="list-style-type: none"> <li>Compatible with cationics</li> </ul>	<ul style="list-style-type: none"> <li>Compatible with cationics</li> </ul>	<ul style="list-style-type: none"> <li>Very good suspension in high viscosity formulations</li> <li>Very good polymeric emulsifier</li> </ul>
<b>Associative character</b>	None	High	Very High	None	High	High	Very High
<b>Ionicity</b>	Anionic	Anionic	Anionic	Anionic	Nonionic	Nonionic	Anionic
<b>% solids</b>	31	30	20	29	35	19	29
<b>pH</b>	3.5	2.7	3	3	8.5	6–8	3.8
<b>INCI Name</b>	Acrylates Copolymer	Acrylates / Steareth-20 Methacrylate Copolymer	Acrylates / Beheneth-25 Methacrylate Copolymer	Acrylates / Vinyl Neodecanoate Crosspolymer	PEG-150 / Decyl Alcohol / SMDI Copolymer	PEG-150 / Stearyl Alcohol / SMDI Copolymer	Acrylates / Steareth-20 Methacrylate Crosspolymer

©™ Trademark of The Dow Chemical Company (Dow) or an affiliated company of Dow

Notice: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. No warranties are given; all implied warranties of merchantability or fitness for a particular purpose are expressly excluded. This document is intended for global use.

Published February 2015  
Form No. 324-00441-0215 CDP