

SHELL NEODOL ALCOHOLS DIFFERENTIATED PERFORMANCE

Shell NEODOL alcohol properties

Shell NEODOL	91	1	23	25	45	3	5	135
Carbon chain	C ₉ C ₁₀ C ₁₁	C ₁₁	C ₁₂ C ₁₃	C ₁₂ C ₁₃ C ₁₄ C ₁₅	C ₁₄ C ₁₅	C ₁₃	C ₁₅	C ₁₁ C ₁₃ C ₁₅
Molecular weight, g/mol	160	172	194	207	221	197	228	207
Hydroxyl number, mg KOH/g	350	325	289	271	254	284	246	271
Flash point via PMCC, °C	108	121	135	149	157	143	149	143
Pour point, °C	-12	11	15	20	29	27	38	24
Viscosity at 40 °C, cSt	9	11	13	14	18	11	15	15
Density at 25 °C (or at 40 °C), kg/l	0.827	0.828	0.831	0.832	0.833	(0.839)	(0.842)	0.832

The N135 alcohol (with C11, 13 and 15 alcohols) is designed to have the same average molecular mass and carbon number as N25 (with C12, 13, 14 and 15 alcohols). This means that the N135 alcohol and the resulting ethoxylates have similar properties to the analogous N25 grades.

What's in a name? The first part of a Shell NEODOL alcohols and ethoxylates grade name reflects the parent alcohol. For example, Shell NEODOL alcohols and ethoxylates 23 is a blend of C12 and C13 alcohols. The number that follows indicates the average moles of Ethylene Oxide (EO) added. So, Shell NEODOL alcohols and ethoxylates 23-2 has an average of approximately 2 moles of EO per mole of alcohol.



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