

Lutensol® TDA Surfactants

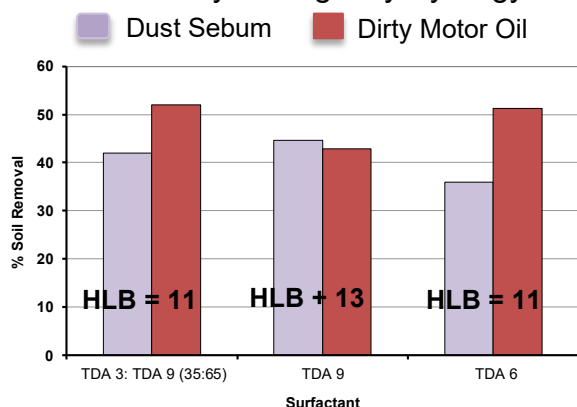
Nonionic Surfactants for Household and I&I Cleaner Formulations

Lutensol TDA Product Line

	Lutensol TDA 3	Lutensol TDA 6	Lutensol TDA 8	Lutensol TDA 9	Lutensol TDA 10
pH	6 – 7.5	6 – 7.5	6 – 7.5	6 – 7.5	6 – 7.5
Specific Gravity	0.950	0.980	-----	1.000	1.030
Cloud point	<0° C	38 - 43° C	43° C	58° C	82° C
Pour Point	- 15° C	10° C	paste	20° C	
HLB	8	11	12	13	14

Lutensol® TDA surfactants are ethoxylated tridecyl alcohols. Members of this surfactant series show excellent rapid wetting properties, have relatively low foaming levels and good detergency and can function as emulsifiers, dispersants, and solublizers

Laundry Detergency Synergy



Conditions: hardness 150ppm, 150°F, surfactant con. = 0.50wt.%, equal actives, motor oil & dust sebum

The combination of the TDA 3 with the TDA 9 shows a Synergistic performance for detergency. Even though the calculated HLB of the blend is very similar to that of the TDA 6 the performance of the blend is significantly Improved. When a builder was added the performance was significantly increased. The % soil removal of the blend on dust sebum went from about 42% to about 70%.



The cleaning of the TDA blend is visibly better than the cleaning with a alcohol ethoxylate with 7 EO

Formulations

Highly Built Laundry Detergent
Shower and Tile Cleaner
Hard Surface Cleaner

1053787-7-22-2
1053787-7-61-1
1053787-7-61-2

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