

PALMFONATE

Guided Formulations

Heavy Duty Liquid Laundry Detergent

Procedure

If using **PALMFONATE** 6703: Pre-condition the **PALMFONATE** at 45 °C. Add water to the vessel followed by Part A in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Parts B, C, D and E ingredients, stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH as required. Then add desired fragrance and preservative.

If using **PALMFONATE 6709F**: Heat water in the vessel to 70°C. Add Part A in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Parts B, C, D and E ingredients, stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH as required. Then add desired fragrance and preservative.

Typical Properties

Appearance Clear Clarity (%T at 800nm) 97 pH (neat) 7 - 8

Viscosity (cP) 2000 - 3000

Stability Pass 12 weeks at 4°C,

room temperature & 45°C Pass 5 freeze-thaw cycles

PALMFONATE 6703 6709F Part A Deionized Water	Ingredients	% wt./wt.	Function
Deionized Water 46.9 57.2 Diluent NaOH, 50% 2.0 pH Modifier TENSARYL LABSA, 96%* 10.0 Surfactant Part B PALMFONATE 13.3 4.4 Co-Surfactant TENSAGEX SLES, 25%* 16.8 Co-Surfactant Part C IMBENTIN Fatty Alcohol Ethoxylate (7EO)* Part D KOTILEN Polysorbate-20* 1.0 Viscosity Modifier Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	PALMFONATE	6703 6709F	
NaOH, 50% 2.0 pH Modifier TENSARYL LABSA, 96%* 10.0 Surfactant Part B PALMFONATE 13.3 4.4 Co-Surfactant TENSAGEX SLES, 25%* 16.8 Co-Surfactant Part C IMBENTIN Fatty Alcohol Ethoxylate (7EO)* Part D KOTILEN Polysorbate-20* 1.0 Viscosity Modifier Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	Part A		
TENSARYL LABSA, 96%* 10.0 Surfactant Part B PALMFONATE 13.3 4.4 Co-Surfactant TENSAGEX SLES, 25%* 16.8 Co-Surfactant Part C IMBENTIN Fatty Alcohol Ethoxylate (7EO)* 7.0 Solubiliser Part D KOTILEN Polysorbate-20* 1.0 Viscosity Modifier Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	Deionized Water	46.9 57.2	Diluent
Part B PALMFONATE 13.3 4.4 Co-Surfactant TENSAGEX SLES, 25%* 16.8 Co-Surfactant Part C IMBENTIN Fatty Alcohol Ethoxylate (7EO)* Part D KOTILEN Polysorbate-20* 1.0 Viscosity Modifier Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	NaOH, 50%	2.0	pH Modifier
PALMFONATE 13.3 4.4 Co-Surfactant TENSAGEX SLES, 25%* 16.8 Co-Surfactant Part C IMBENTIN Fatty Alcohol Ethoxylate (7EO)* 7.0 Solubiliser Part D KOTILEN Polysorbate-20* 1.0 Viscosity Modifier Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	TENSARYL LABSA, 96%	6* 10.0	Surfactant
TENSAGEX SLES, 25%* 16.8 Co-Surfactant Part C IMBENTIN Fatty Alcohol Ethoxylate (7EO)* Part D KOTILEN Polysorbate-20* 1.0 Viscosity Modifier Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	Part B		
Part C IMBENTIN Fatty Alcohol Ethoxylate (7EO)* Part D KOTILEN Polysorbate-20* Part E PALMOCOL CDEA* 3.0 Solubiliser Viscosity Modifier	PALMFONATE	13.3 4.4	Co-Surfactant
IMBENTIN Fatty Alcohol Ethoxylate (7EO)* Part D KOTILEN Polysorbate-20* Part E PALMOCOL CDEA* 7.0 Solubiliser Viscosity Modifier	TENSAGEX SLES, 25%	* 16.8	Co-Surfactant
Ethoxylate (7EO)* Part D KOTILEN Polysorbate-20* Part E PALMOCOL CDEA* 7.0 Solubiliser Viscosity Modifier	Part C		
KOTILEN Polysorbate-20* 1.0 Viscosity Modifier Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	•	7.0	Solubiliser
Part E PALMOCOL CDEA* 3.0 Viscosity Modifier	Part D		
PALMOCOL CDEA* 3.0 Viscosity Modifier	KOTILEN Polysorbate-2	0* 1.0	Viscosity Modifier
·	Part E		
D 15	PALMOCOL CDEA*	3.0	Viscosity Modifier
Part F	Part F		
Fragrance As Needed Fragrance	Fragrance	As Needed	Fragrance
Preservative As Needed Preservative	Preservative	As Needed	Preservative



