



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 |

| Ingredients | % wt./wt. | Function |
|--|-------------|--------------------|
| PALMFONATE 6703 6709F | | |
| Part A | | |
| 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)* | 7.0 | Solubiliser |
| Part D | | |
| KOTILEN Polysorbate-20* | 1.0 | Viscosity Modifier |
| Part E | | |
| PALMOCOL CDEA* | 3.0 | Viscosity Modifier |
| Part F | | |
| Fragrance | As Needed | Fragrance |
| Preservative | As Needed | Preservative |

*Ingredients offered by KLK OLEO

