

Specifications for
PETRONATE® HL Sodium Sulfonate

| <u>PROPERTIES GUARANTEED</u> | <u>TEST METHOD</u> | <u>LIMITS</u> |
|-----------------------------------|--------------------|---------------|
| Sulfonate Content, wt% | ASTM D3712 | 61.0/63.0 |
| Oil, wt % | ASTM D3712 | 31.0/35.0 |
| Water, wt% | ASTM D95 | 4.0/5.0 |
| Free Alkalinity, mg KOH/ gm | LATM 067 | 2.0 Max |
| ASTM Color, Dilute | ASTM D1500 | 5.0 max |
| Equivalent Weight | ASTM D3712 | 445/465 |
| Inorganic salts, % | ASTM D3712 | 1.0 Max |
| Viscosity @ 100°C. cSt | ASTM D445 | 100/300 |
| Density @ 20°C, Kg/m ³ | LATM 124 | Report |

Product Description and Application:

Petronate HL is an all-natural medium molecular weight first intent sodium sulfonate. It is recommended for use in soluble oils and semi-synthetic fluids to impart all of the benefits of natural sodium sulfonate and exhibits improved emulsion properties compared to commercially available synthetic products. Petronate HL also possesses the inherent corrosion protection characteristics expected from a medium molecular weight high quality sodium sulfonate. Nominal dosages would range from 1.0 to 10.0 wt. % of the finished soluble oil or semi-synthetic fluid. Petronate HL is compatible with most mineral base oils, white oils, and synthetic base stocks.

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