

## LUBSULF – SODIUM SULFONATES

### I. GENERAL DESCRIPTION:

LUBSULF NA 415, NA 450 and NA 500 are oil soluble, oleum sulfonated synthetic sodium sulfonates. LUBSULF NA 415 and NA 450 have good affinity for water making them excellent components in emulsifier packages. LUBSULF NA 500 displaces water thus making it a good rust and corrosion inhibitor component.

### II. TYPICAL PROPERTIES: (not specifications)

ITEM	METHOD	NA 415	NA 450	NA 500
Sodium Sulfonate, % wt.	ASTM D-3712	63	63	63
Average Molecular Weight	ASTM D-3712	415	450	500
Specific Gravity @ 60°F	ASTM-D-1298	1.00	0.98	0.96
Pounds per Gallon @ 60 °F		8.34	8.20	8.00
Viscosity, cSt @ 100 °C	ASTM D-445	70	60	60
Inorganic Salts	ASTM D-3712	0.6	0.6	0.6
Water, % wt.	ASTM D-3712/D-95	0.75	0.75	0.75
Emulsibility		Excellent	very good	good
Corrosion Inhibition		Fair	good	excellent

### III. APPLICATIONS:

Major functions performed by oil soluble sodium sulfonates include: Emulsification and dispersion of liquids, inhibition of rust & corrosion, and wetting dispersion of liquid solid systems. Sodium sulfonates are major components used in soluble cutting oils, textile oils, cleaning compounds, drawing compounds, emulsions, fat splitting, ore flotation, printing inks, paint manufacture, pigment manufacture, spray oil emulsifiers, and many others. The advantages of these products over the “so-called” natural sulfonates include lower viscosity for ease in handling, lighter color, and greater batch to batch consistency.