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2744 East Kemper Road • Cincinnati, OH 45241

ARISTONATE® C-5000

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

Aristonate® C-5000 is a very high molecular weight, high purity calcium oil soluble neutral alkyl aryl sulfonate. Aristonate® C-5000 is a viscous, dark brown petroleum sulfonate of high viscosity, which finds use in a wide variety of use in soluble oil and semi-synthetic industrial lubricant formulations. Aristonate® C-5000 generates low foam levels and has excellent emulsification and corrosion protection properties.

CHEMICAL NAME

Proprietary Neutral Calcium Sulfonate (Synthetically Derived Petroleum Sulfonate)

TYPICAL PROPERTIES

Appearance @ 25°C	Viscous brown liquid
Odor	Slight
Active (Wt. %)	50.0
Calcium (Wt. %)	2.0
TBN (Mg KOH/g)	8.0 max
Equivalent Weight	520
pH (10% solution)	7.8
Solubility in Water	Negligible

APPLICATIONS

Hydraulic Fluids

Aristonate® C-5000 levels of 0.05-1.0% imparts exceptional anti-corrosion and demulsification properties

Metalworking Fluids

At higher levels of 5-7%, Aristonate C-5000 can provide additional corrosion protection to soluble oils and semi-synthetics.

PERFORMANCE

Two independent laboratories determined that both Aristonate® C-5000 and an additive base on alkyl naphthalene (ADD-1) passed the ASTM D-665 parts A (distilled water) and B (synthetic sea water) Turbine Oil Rust test in 100 second Naphthenic Oil. The % concentration range 0.25, 0.20, 0.15, 0.10, and 0.05.

The table below shows Aristonate® C-5000 performance against a standard sulfonated additive based on alkyl naphthalene (ADD-1) for demulsibility (ASTM D-1401).

ASTM D-1401

3 different concentrations in 100 second naphthenic oil at 54°C.

	0.05%	0.1%	1.0%
Aristonate® C-5000	41/39/0 (20 min.)	38/40/2 (30 min.)	41/39/0 (20 min.)
ADD-1	14/36/30 (60 min.)	12/34/34 (60 min.)	1/33/46 (20 min.)

STORAGE & HANDLING

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling. Avoid eye and prolonged skin contact. Avoid inhalation of spray mist or vapor. Wash thoroughly after handling material. Material should be warmed to 100 - 120°F before using. Do not store drums near open flames or strong oxidants. Store above 32°F, avoid excessive heat. Heated and agitated iron or steel tanks should be used for bulk storage. Please refer to the MSDS before handling Aristonate® C-5000.

PACKAGING

Aristonate® C-5000 is available in 55-gallon open head steel drums (net weight 400 lb/182 kg); bulk quantities are available by tank car or tank truck.

See starting formulas and additional product information, at www.pilotchemical.com

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