



VANCHEM[®] CS 400

**Grease Precursor,
TBN Booster,
Rust Inhibitor**

TECHNICAL DATA

VANCHEM[®] CS 400 is a high TBN, oil soluble overbased calcium sulfonate for use as a grease precursor in the production of high quality overbased calcium sulfonate complex grease. It can also be used as a TBN booster and rust inhibitor in other lubricant applications.

CHEMICAL COMPOSITION

2,5-dimercapto-1,3,4-thiadiazole derivative

TYPICAL PROPERTIES

Physical State	Liquid
Appearance	Dark Brown
Calcium, %	15.3
Calcium Sulfonate, %	18.5
Total Base Number	400
Water, %	0.3
Viscosity @ 100°C, mm ² /s	75
Density @ 15.0°C, Mg/m ³	1.20

*The analytical data listed above are not specifications

APPLICATIONS

- Greases
- Engine Oils
- Industrial Oils

RECOMMENDED TREAT RATES

- Typical range is 20-60 wt. % for overbased calcium sulfonate complex grease
- For other applications, it can vary based on lubricant type and application

ADVANTAGES

- Works as liquid, high TBN calcium sulfonate
- Utilizes amorphous calcium carbonate as TBN source
- Delivers good detergency and excellent rust inhibition
- Imparts excellent EP (extreme pressure) properties to grease
- Provides higher dropping point for high temperature grease applications

SOLUBILITY

- Soluble in most mineral and synthetic base oils

STANDARD PACKAGING

- 518 lb. drums and bulk

HANDLING AND STORAGE

Please refer to Section 7 of the SDS for handling and storage information.

Additional handling and storage information:

Suggested pumping temperature is normally at elevated temperatures. Short and long term storage temperature 60-80°C and handling temperature 80-90°C.

REGISTRATION

Please refer to section 15 of SDS for regulatory information.

CONTACT INFORMATION

For samples, product information and/or technical service, please contact Vanderbilt Chemicals, LLC or the Vanderbilt representative in your area:

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