

## Engine Oil TBN Booster 400 Synthetic Calcium Sulfonate

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### I Product Introduction

Oil Additive Detergent Calcium Sulphonate TBN Booster 400 is synthesized with in high base number more than 400. It is produced by the raw material of alkylbenze sulfonic acid along with CaO and introducing surfactants and proper amount of NaOH under the condition of promoter. During the process, NaOH and surfactants were introduced to synthesize the finished sulfonate salts. It has outstanding high temperature detergency, high temperature anti-oxidation performance, etc.

It is an oil soluble super overbased calcium sulfonate designed for use as a detergent/dispersant, source of high alkylinity for acid neutralization plus rust and corrosion inhibition. It can be used in lubricating fluids, greases, rust preventatives and metalworking fluid. It is a type of Lubricant Additive Component, classified as TBN Booster Calcium Sulfonate, it has good compatibility with Antiwear EP Additive, Corrosion Inhibitor ZDDP, Ashless Dispersant, High Temperature Antioxidant, Rust Preventative Anti-rust Additive, Pour Point Depressant, Viscosity Index Improver, ect., to blend different kinds of Additive Package. Also can be used as TBN Booster for various engine oil.

### I Product Technical Index

Item	Typical Value	Test Method
Appearance	Red brown transparent viscous liquid	Visual Inspection
Flash Point (COC), °C	200	ASTM D92
Kinematic Viscosity (100°C), mm <sup>2</sup> /s	130	ASTM D445
Density (20°C), kg/m <sup>3</sup>	1200	ASTM D4052
Total Base Number, mgKOH/g	408	ASTM D2896
Ca Content, m%	15.0	ASTM D4951
S Content, m%	1.5	ASTM D1552
Water Content, m%	0.03	ASTM D95

### I Package, Storage and Transportation

This product is non-flammable, non-explosive, and non-corrosive, and it is same as petroleum products in terms of safety, environmental protection, use and other aspects, thus it needs no special protection. Packed in 200 liters iron drum or according to user requirement. Transportation mode is by container or truck. The maximum storage temperature shall not exceed 45°C. The product is stored with a shelf life of 2 years, and it should avoid contact with strong antioxidant when use. In case of accidental contact with skin, wash it off thoroughly with water and detergent.