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## Detergent Overbased Sulfurized Calcium Alkyl Phenate

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### ●Product Introduction

The Calcium Alkyl Phenate Lubricant Additive Detergent is made from dodecylphenol by means of sulfurization, neutralization and high alkalization reaction. This product is a kind of widely used lubricant additive of comprehensive performance, it has extremely good acid neutralization capacity and high-temperature detergency, excellent oxidation resistance and corrosion control as well as good emulsion resistance and oil solubility. It is compatible with TBN Booster Calcium Sulfonate , Corrosion Inhibitor ZDDP, Ashless Dispersant, High Temperature Antioxidant, Antiwear EP Additive, Rust Preventative Anti-rust Additive, Pour Point Depressant, ect. It has prominent effect in reducing top-piston ring carbon and is widely used to blend middle and high grade ICE oils.

### ●Product Technical Index

Item	Typical Value	Test Method
Flash Point (COC), °C	200	ASTM D92
Kinematic Viscosity (100°C), mm <sup>2</sup> /s	295	ASTM D445
Density (20 °C), kg/m <sup>3</sup>	1088	ASTM D4052
Total Base Number, mg KOH/g	276	ASTM D2896
Ca Content, m%	10.1	ASTM D4951
S Content, m%	3.2	ASTM D1552
Water Content, m%	0.02	ASTM D95

### ●Features

Besides excellent performances, it has the advantage of light chroma; lower corrosion of copper and lead.

### ●Package, Storage and Transportation

For highest storage temperature, it shall not surpass 45°C. This product is non-flammable, non-explosive, and non-corrosive. In terms of safety, environmental protection and use, it is equal to general petroleum products, don't need the special protection. Avoid contact with strong oxidizer when use it, shelf life is 2 years.