



SIDDHI TRADE ENTERPRISE

ANTIOXIDANT ZDDP

TECHNICAL DATA SHEET

INTRODUCTION

Inhibitor and Antiwear Additive for Crankcase Oils.

FORMULATION

Recommended at:

0.7% to 2.05% by weight 0.58% to 1.69% by volume

In suitable base stocks to provide oil inhibition, bearing corrosion protection, and anti-wear properties to crankcase oils..

TYPICAL PROPERTIES

Physical Characteristics:

Specific Gravity @ 15.6°C (60°F)	1.18
Pounds per U.S. Gallon @ 15.6°C	9.85
Pounds per IMP Gallon @ 15.6°C	11.8
Viscosity @ 100°C, cSt	13.5

Chemical Characteristics:

Weight Percent of:

	<u>Minimum</u>	<u>Maximum</u>
Phosphorus	9.3	9.7
Sulfur	19.0	21.0
Zinc	10.0	11.2

ANTIOXIDANT ZDDP

SPECIFICATION SHEET

TEST	PROCEDURE	MIN	MAX
1. PRIMARY ANALYSIS			
Specific Gravity @ 15.6° C	ASTM D 1298	1.115	1.145
Viscosity @ 100° C., cst	ASTM D 445	10.0	14.0
Color, ASTM Dilute	ASTM D 1500	1.0	3.0
% Water	ASTM D 95		0.1
Blot	GL-BL-1A	PASS	PASS
Clarity	CLARK CLAR.	PASS	PASS
Phosphorus	GL-PH-1B	9.3	9.7
Sulfur	GL-SU-6/10	19	21
Zinc	GL-EDTA-1	10	11.2
Barium, ppm	GL-CNT-1		100
Calcium, ppm	GL-CNT-1		100
2. SECONDARY ANALYSIS			
Viscosity @ 40° C., cst	ASTM D 445	250	290
Flash point, ° C., PMCC	ASTM D 93	101	125

INTRODUCTION

ZDDP 9307 is a secondary alkyl zinc dithiophosphate inhibitor and antiwear agent.

FORMULATION

ZDDP 9307 is recommended for use at 0.35% to 1.0%wt (0.25% to 0.80%v) in combination with rust inhibitor to formulate antiwear hydraulic turbine and gear oils, greases, and water-based fluids. Recommended treat rate 0.5%-1.0%wt in lubricating greases.

PERFORMANCE

ZDDP 9307 plus additional rust inhibitor can be formulated to meet

- Denison HF-2 SPECIFICATION SHEET
- Vickers I-286-S
- Vickers M-2950-S

BENEFITS

- Enhanced oxidation inhibition
- Excellent anti wear protection
- Proven field performance

TYPICAL PROPERTIES

PHYSICAL

Specific Gravity @ 15.6°C	1.06
Viscosity, cSt @ 100°C	7.8

CHEMICAL

Phosphorus, %wt	8.5
Sulfur, %wt	17.6
Zinc, %wt	9.25

ANTIOXIDANT ZDDP - 9307

SPECIFICATION SHEET

TEST	PROCEDURE	MIN	VALUE
1. PRIMARY ANALYSIS			
Specific Gravity @ 15.6° C	ASTM D 1298	1.11	1.06
Viscosity @ 100° C., cst	ASTM D 445		7.8
Color, ASTM Dilute	ASTM D 1500		4
% Water	ASTM D 95		0.1
Blot	GL-BL-1A		PASS
Clarity	CLARK CLAR.		PASS
Phosphorus	GL-PH-1B	8.3	8.5
Sulfur	ASTM D 129	17	17.6
Zinc	GL-EDTA-1	8.85	9.2
Barium, ppm	GL-CNT-1		100
Calcium, ppm	GL-CNT-1		100
2. SECONDARY ANALYSIS			
Viscosity @ 40° C., cst	ASTM D 445		250
Flash point, ° C., PMCC	ASTM D 93	100	120
Pour Point, ° C.	ASTM D 97		-9
% Sulfated Ash, ASTM	ASTM D 874		28.5

On behalf of [Siddhi Trade Enterprise](#), we are pleased to have the opportunity to work with you and we look forward to establishing a solid, mutually beneficial business relationship.

Please feel free to contact us for further details. Assuring you our best services.

SIDDHI TRADE ENTERPRISE

Mayuresh Cosmos Society, Office No.1104, Plot No.37, Sector 11, CBD Belapur, Navi Mumbai 400614, India

Tel: 022-27561092, Fax: 022-27561279 Email: info@siddhitrade.co.in

Website: www.siddhitrade.co.in

BRINGING EXCELLENCE TO THE PINNACLE