



# LUBRICANTS

POWER TO PERFORM

## PARTHAN EP MA SERIES INDUSTRIAL GEARBOX OILS

### SPECIAL FEATURES

Certain Industrial Gear Units are exposed to high-load/low-speed conditions which can lead to the breakdown of the lubricating film that is normally required for a long bearing life. This problem was identified by the R&D of Hindustan Petroleum Corporation Limited and premium mineral grade oil PARTHAN EP MA series has been developed to counter the micro-pitting problems.

PARTHAN EP MA has been specially formulated with new generation extreme pressure additive which is chlorine free and offers long term protection against rust and corrosion while simultaneously keeping gear parts clean and also ensuring good filterability. Premium antioxidants provide long service life in applications.

### SPECIFICATIONS

PARTHAN EP MA meets the FAG FE-8 Test which is now a part of DIN 51517 Part III Specification.

PARTHAN EP MA is compatible with most sealants and bearing materials used in industrial applications and recommended for use in heavily loaded step-up spur/ helical/ herringbone/ bevel/ planetary gearboxes in industrial environment.

Product meets DIN 51517 Part III. PARTHAN EP MA Grades are available in ISO VG 150 to ISO VG 460.

PARTHAN EP MA Series is available in barrel sizes of 210 Litres.

PARTHAN EP MA in conjunction with HP Lube Solutions™ can lead to improved field service performance.



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### PHYSICO-CHEMICAL PROPERTIES

	PARTHAN			
	EP 150 MA	EP 220 MA	EP 320 MA	EP 460 MA
ISO VG Grade	150	220	320	460
AGMA Grade	4 EP	5 EP	6 EP	7 EP
Density @ 15°C, g/cc	0.889	0.8900	0.8911	0.9004
Colour, ASTM D1500	2.5	3.5	4.0	4.5
Flash Point, COC, °C	254	264	280	294
Pour Point, °C	-15	-9	-9	-6
Kinematic Viscosity, cSt, 40°C	149.9	218.8	312.8	435.3
Kinematic Viscosity, cSt, 100°C	14.63	18.92	24.0	30.87
Viscosity Index	96	97	97	101
Total Acid Number, mg KOH/g	0.68	0.68	0.71	0.69
Cu Strip Corrosion, 3 hrs, 100°C	1b	1b	1b	1b
Four Ball wear scar dia, mm.	0.27	0.27	0.26	0.26
Four Ball Weld load, kg	280	280	280	280
FZG Gear test, PLS	>12	>12	>12	>12
Rust Test A&B	Pass	Pass	Pass	Pass
Timken OK Load, lb	70	85	90	90