Technical Service Sheet

≪COSMO GREASE DYNAMAX EP≫

■ LITHIUM TYPE EXTREME PRESSURE UNIVERSAL GREASE

● COSMO GREASE DYNAMAX EP is a lithium type extreme pressure grease which can be used in a broad temperature range from low temperature through high temperature. It exhibits lubricating performance even under critical conditions of heavy duty and shocks where lubricating oil films can be hardly held.

As it also provides superior thermal resistance, mechanical stability, water resistance and oxidation stability, it is recommended as the grease for lubrication of all industrial machines requiring load resistance.

《Features》

(1) Superior load resistance.
Forms strong oil films even under heavy duty and shock load, and thus prevents abnormal and seizure and exhibits excellent load resistance.

(2) Excellent thermal resistance.
Softening or hardening will not occur even when subject to heat history, and after return to normal temperature, lubricatability is exhibited without losing the initial characteristics, due to excellent thermal resistance.

(3) Prominent machanical stability.
Stable grease struture will not be destroyed even against strong shearing forces. In addition, suitable consistency is kept wihout softening or outflow even after use for a long time.

(4) Superior water resistance and rust prevention.
Washout or emulsification will not occur even when used in a place where contact with water occurs. Further, even when water enters, softening or hardening of the grease is minor, and in addition, rust prevention is superior, and the lubrication performance is sufficiently exhibited.

(5) Excellent oxidation stability.
With excellent oxidation stability the grease withstands oxidation and deterioration even when exposed to high temperature, and the grease may be used for a long time without decomposition.

(6) Easy treatment of waste water and waste grease.
Because of no use of lead type extreme pressure additives, treatment of waste water and waste grease is easy.

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2017.8

■LITHIUM TYPE EXTREME PRESSURE UNIVERSAL GREASE

《Application》

●Suitable as grease for lubrication of bearings, gears, sliding surfaces, etc. of steelmaking machines, construction machines, farm machines and motor vehicles which are run under perticularly critical conditions due to superior load resistance in addition to broad working temperature range of −30℃～130℃.

DYNAMAX EP No.0 and No.1 are also suitable as grease for centralized lubrication, as they provide excellent low temprature property and lubricatability.

《Typical properties of COSMO GREASE DYNAMAX EP》

Test item \ Article name		COSMO GREASE DYNAMAX EP			
		No. 0	No. 1	No. 2	No. 3
Type of soap		Lithium	Lithium	Lithium	Lithium
Appearance		Dark brown, ointment form	Dark brown, ointment form	Dark brown, ointment form	Dark brown, ointment form
Worked penetration (25℃)		362	327	282	237
Dropping point ℃		177	182	185	187
Copper corrosion (100℃、24h)		Acceptable	Acceptable	Acceptable	Acceptable
Evaporation loss (99℃、22h) mass%		0.43	0.43	0.43	0.43
Oxidation stability (99℃、100h) kPa		30	30	30	30
Oil separation (100℃、24h) mass%		8.7	6.2	1.5	0.7
Inpurities (number/cm^3)	25 μm and up	100	100	100	100
	75 μm and up	0	0	0	0
	125 μm and up	0	0	0	0
Working stability (After working 100,000 strokes)		380	331	302	269
Water washout (38℃, 1h) mass%		−	7	2	1
Apparent viscosity Pa・s (0℃, shear ratio $10s^{-1}$)		45	78	170	0
Wetting (14 days)		Class A	Class A	Class A	Class A
Extreme pressure properties (Timken Method) N		176	176	176	176
Viscosity of base oil (100℃) mm^2/s		13	13	13	13
Viscosity index of base oil		86	86	86	86

＊We have a case to change the values the data in typical properties will be changed without announcing.

《Package style》

400g tube×20、2.5kgcan ×6、16kg can、180kg drum

300g tube×24 (No.0 only)