

Typical Properties of LUBER MT-1

Test Items		LUBER MT-1	Test Method JIS K 2220
Appearance		Smooth	Finger Touch
Color		Light Brown	Visual
Worked Penetration		325	5.3
Dripping Point (Deg. C)		260	5.4
Copper Corrosion (100Deg. C / 24h)		Pass *	5.5 (B Method)
Evaporation Loss (99Deg. C / 22h) w.t.%		0.12	5.6
Oil Separation (100Deg. C / 24h) w.t.%		4.3	5.7
Oxidation Stability (99 Deg. C / 100 hours)		15	5.8
MPa (Kgf/cm ²)			
Four Ball N (Kgf)	LNL	981	ASTM D 2596
	WL	1961	
	LWI	415	
Thickener		Urea	-
Base Oil		Mineral Oil	
Base Oil Viscosity (mm ² /sec)	100 Deg. C	5.9	5.19

* No change in color into green or black on copper plate is observed.

Four Ball Test Terms:

LNL (Last Non-Seizure Load)

The maximum load under which the balls are lubricated well enough not to get any wear that is larger than 5% of the guaranteed wear in diameter under a given load. The maximum load under which the sample grease is lubricating properly.

WL (Weld Load)

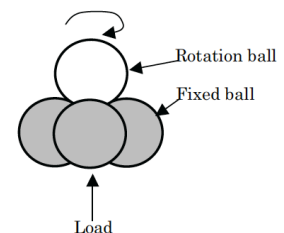
The minimum load under which the rotating ball is welded to the stationary balls.

LWI (Load Wear Index)

LWI is calculated by the formula based on the results of 10 times of WL test performed. LWI is an index indicating wear resistance of a sample grease in each range of the load applied for the test.

newton

The **newton** (symbol: **N**) is the International System of Units (SI) derived unit of force.



*The wear scar of a fixed ball is measured.

Figure 1 Shell four ball test (point contact)