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**Product: BL 600G**  
**TECHNICAL DATA SHEET**

**DESCRIPTION:**

**BL 600G** is a fully stabilised dispersion of graphite in a synthetic carrier, manufactured from highly stable blends of synthetic fluids which contain no silicones, are non-carbonising in use and provide wet lubrication of bearings subjected to elevated temperatures for prolonged periods. The graphite incorporated into the materials provides for dry lubrication up to 550°C and beyond. The carrier fluid does not break down at elevated temperatures to produce hard lacquers which can prove difficult to remove and build up to block oil ways. The extreme pressure-carrying capabilities and low evaporation characteristics exhibited by **BL 600G** is provided by the use of graphite and other high-technology additives. Conveyor chains and bearings exposed to high temperatures for extended periods will be protected by a film of synthetic fluid, and the graphite prevents severe wear occurring even after the base fluids have evaporated.

**TYPICAL USE:**

**BL 600G** is formulated specifically for use in the bakery industry on conveyor and chain applications subjected to extremes of temperature and pressure such as oven conveyor chains, drive mechanisms, bearings, skid plates, keepers, bushes, pins, trips and wheels (linkages and cruciform bearings) which can be continuously exposed to high temperatures and heavy loads. Such mechanisms are also found in the automobile painting and assembly industries, insulation manufacturing industry, metal container manufacturing and finishing industries, and elsewhere.

**METHOD OF APPLICATION:**

**BL 600G** may be applied by brush, oil can, gravity feed or fully automated solid-shot conveyor lubrication systems. Spray lubrication is possible, but generally not recommended.

**TYPICAL CHARACTERISTICS:**

	Specification		Typical Value
Colour	--	--	Black
Operating Temperatures	--	Continuous (1)	230°C
		Intermittent (2)	270°C
Kinematic Viscosity	IP71/87	40°C	270 Cst.
		100°C	16 Cst.
Evaporation (% weight loss)	200°C (24hr)	--	2.75%
Copper Strip Corrosion	ASTM D130-68	--	1a
Density	IP365/85	25°C	0.98 gcm <sup>-3</sup>
Fire Point	IP35/63	--	310°C
Flash Point	IP35/63	--	282°C



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**SHELF LIFE:**

**BL 600G** is a chemically stable formulation that should remain useable for at least 2 years in unopened containers stored at 5-30°C.

**HEALTH & SAFETY:**

**BL 600G** is not classified as hazardous under current or proposed European legislation. A 16 part MSDS is available upon request.

**NOTES:**

These temperatures refer to the oil on the chain. The oven temperature may be higher than this. It is necessary to apply fresh material at a frequency influenced by the operating environment. The word 'continuous' does not imply lubrication "for life". Dry graphite films provide protection against seizure and wear at temperatures in excess of 550°C. However, **BL 600G** is designed to be used as a wet lubricant, and it is not recommended to allow it to run dry, as lubricant performance will sharply diminish.

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