



FREEFLOW™

Lubricant Technical Information Sheet

Description & Application:

Freeflow is a cost effective multi purpose lubricant that guards against damage to taps and cutting tool edges by preventing overheating, and hence safeguards component integrity.

Freeflow is a special blend of refined mineral oils, aliphatic hydrocarbon solvents, PTFE and viscosity modifiers.

The product is supplied in a handy aerosol package that uses an environmentally acceptable propellant system.

Primary features attributable to Freeflow are:

- Multi-purpose lubricant;
- Penetrating;
- Prevents damage to edges and taps;
- Product, including aerosol cans, does not contain any components or propellants that damage the ozone layer (CFC free).

Applications

Freeflow is a multipurpose lubricant that is particularly suited for prevention of damage to taps, drills, cutting tools, etc. that are used in engineering applications.

Compatibility

Freeflow may be safely applied to steel, aluminium, titanium, magnesium, zinc and other metal surfaces.



Freeflow will not harm most plastics and elastomers at room temperature; however specific materials should be tested prior to exposure.

Health and Safety

Freeflow is based on low toxicity compounds.

Users should avoid ingestion and repeated or prolonged contact will degrease skin.

Do not expose fluid containers to temperatures in excess of 50 °C or place in direct sunlight. Use only in well ventilated areas. Do not store or use near naked flames, sources of heat or ignition.

Do not eat, drink or smoke when using the product.

See Material Safety Data Sheet for details.

Typical Properties

Appearance	Opaque amber coloured liquid
Aroma	Oily
Density @ 20 °C	0.84
Vapour Density	Heavier than air
Flash Point, (Closed Cup, °C)	< 0 (propellant and carrier solvents)
Solubility in water	Immiscible

Storage life in original, unopened containers, upright, under clean dry conditions between 5 °C and 30 °C is not less than 24 months.

Process Application

General Application:

Freeflow is used as supplied.

Aerosol application:

Shake the can well then spray directly onto drilling/tapping/working area.

Repeat application as necessary to prevent overheating.

Freeflow may be applied whilst machinery is in use.

If necessary, for aerosol applicators, fit an extension tube into the nozzle to enable a more concentrated jet of fluid to be applied to the part surface close to point of drilling/tapping/working operation.

Post cleaning:

Freeflow can give metal surfaces some protection from corrosion, however, the presence of fine metal particles and debris from cutting / tapping operations can be detrimental.

Consequently, residual oil/PTFE film residues together with any cutting debris should be cleaned off the surface of parts after completion of all required drilling, tapping, etc., operations.

The compound must be cleaned off if however the metal surface is to be chemically treated or painted.

In these cases, parts may be cleaned of all traces of the Freeflow compound by either:

- Hand application of a suitable solvent, e.g. White spirit, Toxfree or Leksol;
- By vapour degreasing;
- Ultrasonic immersion cleaning; or
- By alkaline cleaning using a suitable cleaner (e.g. Amity's Metaclean or Orthoclean).

CONTACT DETAILS:

For UK and Rest of the World:

Amity International,
Libra House, West Street
Worsbrough Dale,
BARNSELY
S YORKS, S70 5PG,
ENGLAND

Tel: +44 (0) 1226 770787
Fax: +44 (0) 1226 770757

For North America:

Amity International,
PO Box 5254,
1704 Denver Road,
ANDERSON,
SOUTH CAROLINA,
SC29623, USA.

Tel: 864 622 2233
Fax: 864 622 2234

E-mail: sales@amityinternational.com

Web site: <http://www.amityinternational.com>

For any further information, please contact your distributor or Amity.

In the event of any technical queries, please contact:
Mr. Ram Singh at the UK/ROW address, above, or by e-mail to:

rsingh@amityinternational.com

Packaging Details:

Freeflow is available in:

- 500 ml aerosol cans.