SUPERSHIELD™

PX24, DEF STAN 68-10
Rust Preventative Fluid
Technical Information Sheet

Description & Application:

Supershield is the trade name for a special blend of corrosion inhibitors, waxes and mineral oil within a petroleum distillate that acts as a multi-use penetrating lubricant and protective film coating.
Supershield will penetrate, displace moisture and protect metal surfaces against corrosion.

Supershield is available in clear (colourless) and transparent yellow dyed versions, and in bulk or handy aerosol cans.
An alternative higher flash point solvent carrier formulation is also available, known as 'Supershield Export' – see separate data sheet.
Supershield may be applied by dip, swab, brush or spray methods.

Primary features attributable to Supershield are:

- Displaces moisture from surfaces and crevices;
- Deposits a thin protective film;
- Guards against metallic corrosion;
- Provide long term indoor and medium term outdoor protection;
- Penetrates rust and scale;
- Safe on wide range of metals and plastics;
- Compatible with electrical equipment;
- Releases seized parts;
- Does not contain any components or propellants that damage the ozone layer (CFC free).

Product Call Off

Users need to specify the version needed if other than the standard clear bulk version is required.

Certificate No. GB06/69741

Safer Solutions For Industry

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Issue: 10 Aug 2012

Please call up as: - Supershield – yellow/export as applicable.

Applications

Supershield is ideal for the protection of electrical equipment, including switchgear, relays, motors, telephonic/communication equipment, electrical ignition systems, etc., from moisture degradation effects.
It is a non-intrusive coating for the protection of metal components in storage and a superb protection for electronic and electrical equipment in moist environments.
Supershield is particularly suitable for marine and offshore oil applications.

Compatibility

Supershield may be safely applied to steel, aluminium, titanium, magnesium, zinc and other metal surfaces.
Supershield is compatible with a wide range of plastics and elastomers at room temperature; however specific materials should be tested prior to exposure.

Health and Safety

Supershield is classed as irritant and it may cause irritation of skin and eyes and the respiratory tract.
It is flammable but is neither a known or suspected carcinogen.
Do not expose fluid containers to temperatures in excess of 50 °C or place in direct sunlight.
See Material Safety Data Sheet for details.

Typical Properties

Appearance	Amber coloured mobile liquid
Density @ 20 °C	0.80 to 0.88
Vapour Pressure, kPa at 38 °C	2.0 (solvent carrier)
Vapour density, air = 1	5.0
Solubility	Insoluble in water, Soluble in most organic compounds
pH of aqueous dispersion	6 to 7 units
Flash Point, (Closed Cup, °C)	40
Initial Boiling Point, °C (°F)	150 (302)

Storage life in original, unopened containers, at between 0 °C and 35 °C (32° to 95 °F), is not less than 5 years.
Storage life of the aerosol version in original, unopened containers, at between 0 °C and 35 °C (32° to 95 °F), is not less than 24 months.

The fluid normally flows to give a film thickness of between 2 and 10 microns (2 to 10 g / m^2).
Coverage is about 45 square meters per litre of fluid.
The film dries to yield a transparent, soft, self-repairing, oily, gel coating (density 0.96).

Test Compliance:

Approved to the requirements of UK Defence Specification Def Stan 68-10 (NATO Code C-634, Joint Services Reference PX24)

Process application

Application:
Use as Supershield supplied.
Apply product by brush, swab, spray, roller or dip application techniques onto required surfaces.

Fluid process controls are not normally required.
Dip tanks should be topped up as necessary to compensate for fluid losses.
The fluid may be used within commercially available spray equipment, however, users will need to confirm the suitability of any plastics or elastomeric/rubber seals within the spray equipment for use with this product

Aerosol application:
Shake the can well then spray directly onto surface.

Following application, the fluid will begin to penetrate and displace water immediately; however, sufficient time should be allowed for the fluid to penetrate closed parts, tight crevices or seized components.
If necessary for difficult applications, apply further coats of the fluid.
The drying time to achieve 95% carrier solvent evaporation is about 1 hour at 20 °C.

Removal of film coating:
Where required, the film may be removed using suitable solvents, e.g. white spirit, kerosene, petroleum spirit, chlorinated solvents, Leksol, Toxfree, etc.
Removal may be by hand cleaning, vapour degreasing or ultrasonic immersion cleaning.
Alkaline cleaning may also be successfully employed.

CONTACT DETAILS:

For UK and Rest of the World:

Amity International,
Libra House, West Street
Worsbrough Dale,
BARNSLEY
S YORKS, S0 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:

Supershield is available in:

Standard clear version:

- 25 Litre metal containers;
- 500 ml aerosol cans.

Approval Data for Supershield

1. Approvals.

Supershield has been approved to/by:

Aerospatiale;
BAE Systems;
Fokker;
Lufthansa;
Rolls Royce;
UK Ministry of Defence.