

RUST-OLEUM®

# X1

EXCELLENT



*The neXt generation  
technical sprays*



**RUST-OLEUM®** EXCELLENT TECHNICAL SPRAYS

KNOW-HOW TO PROTECT®

# X1 COVERS IT ALL

A comprehensive range of Technical Sprays for ALL your industrial lubrication and cleaning needs



## Ultimate synthetic lubrication

The X1 eXcellent Technical Sprays contain the unique ceramic technology: BoroTech™

This additive is formulated to increase performance under high loads and extreme pressures. It also reduces friction and wear between surfaces. (See page 4-5)

## H1 food-grade certified

H1 food grade certified **without** any performance loss. (See page 6)



All application areas from lubrication to cleaning



3-way spraying under any angle

Lubricate and clean any object no matter how difficult to reach thanks to our 360° valve system and various nozzle combinations. (See page 21)



Why buy a range of sprays when with X1 you have it all!

Rust-Oleum® offers the all-in-one assortment...  
**X1 eXcellent Technical Sprays**

- **ONE – STOP – SHOP assortment**

Complete range of sprays; lubricants, corrosion inhibitors, cleaners and penetrating sprays.

- **Highest quality**

Excellent performance and endurance

- **Ease of choice**

Select your preferred technical spray easily

- **ONE – STEP – AHEAD**

Groundbreaking techniques and ongoing innovations

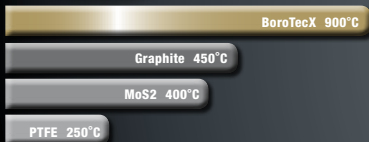




**BoroTecX™**  
The ultimate equipment protection!

*Rust-Oleum® has revolutionised technical sprays with a special additive, 'BoroTecX™' the ultimate in lubrication improving additives.*

**Higher performance**



BoroTecX™ is capable of withstanding temperatures up to 900°C

**Extreme Loads**



BoroTecX™ is capable of withstanding extreme loads. Where others fail, BoroTecX™ continues and keeps reducing friction.



BoroTecX™ is highly chemical resistant. It therefore can be used in chemical (aggressive) areas.

**Food safe!**



BoroTecX™ is an HX-1 certified ingredient for use in an H1 lubricant. It therefore can be used in and around food processing areas.

**Lasts longer**



No BoroTecX



Test EN ISO-20623 / ASTM D2266 has proven that X1 white grease containing BoroTecX™ can outperform standard greases by up to 4 times.





## Food grade products

### Premium ingredients

The X1 eXcellent assortment is produced with high-end premium ingredients which are H1 certified by the InS registration institute.

H1 products are approved for incidental food contact in and around food processing areas.



K2 products are approved as a food grade solvent for cleaning electronic instruments, provided that all odours associated with the product have dissipated before food or packaging are exposed to the area.



## Clear indication of purpose and application

### Icons



The ultimate lubrication improving additive



InS Food Contact



Anti corrosive



Penetrating



Lubricating



Cleaning



Protecting



360° system



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## X1 Multi-Purpose spray

*Lubricates, cleans and protects*

A general purpose lubrication fluid that protects and cleans metal and plastic parts. This excellent penetrating fluid has anti-corrosive and water repellent properties. It leaves a protective film layer after use.

### Applications

- Lubricating cables, chains, locks, switches and contacts
- Protection of metal surfaces against rust
- Lubricating locks, hinges and other moving parts
- Protection of electrical terminals from moisture and corrosion
- Displaces water in automotive ignition circuits and contacts
- Free/loosen rusted parts
- Will help to remove adhesive labels

### Characteristics

- Stops squeaking
- Creeping properties
- Displaces water
- A film layer is left on the surface after cleaning
- Does not contain silicon
- Temperature range: -30 °C to 145 °C
- Dissolves grease, tar, oil and some adhesives



## X1 Cutting & Tapping spray

*Lubricates and cools all cutting tools*

A specially formulated cutting fluid which lubricates and cools the cutting tools and work piece for every form of metalworking such as cutting, drilling, sawing and tapping. It withstands extreme loads and temperatures, will resist chemical attacks and has excellent thermal conductivity. An ultra thin film will give lasting lubrication and protection.

### Applications

- Cutting, drilling, sawing and tapping all types of ferrous and non ferrous metals

### Characteristics:

- Cools while cutting
- Prolongs tool life
- Reduced friction leads to better surface finish
- Increases process speeds
- Non silicon
- Temperature range: -30 °C to 130 °C
- Contains extreme pressure additives which help prevent galling and pitting







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## **X1 Chain & Drive spray**

*Reduces friction, helps prevent wear*

A high quality spray with effective anti-filing properties for lubricating gears and chains. It reduces friction and helps prevent wear on chains and open gears which are liable to heavy load. It withstands extreme loads and temperatures and has an ultra low coefficient of friction.

### **Applications**

- Lubricating open chains and chain driven transmission.
- Fork lift truck chains
- Open gears on conveyors
- Bike chains and gears
- Fork lift/truck drains

### **Characteristics:**

- Good adhesion
- Resists detergent washing
- H1 compliant for incidental food contact
- Temperature range: - 35 °C to 180 °C
- Extreme pressure additives give long term protection and reduce wear under extreme loads



## **X1 Multi-Purpose Weld spray**

*Prevents adhesion of weld spatter*

A high quality technical spray that effectively prevents the adhesion of weld spatter to metal surfaces. It protects welded materials from corrosion. It withstands extreme temperatures, will resist chemical attacks and has excellent thermal conductivity.

### **Applications**

- Work pieces
- Welding equipment
- Suitable for MIG, ARC or TIG welding
- Can be used for lubricating MIG and TIG coils

### **Characteristics**

- Non corrosive
- Non silicon
- Temperature range: -5 °C to 200 °C
- Contains no chlorinated solvents





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## X1 Freeze & Release spray

*High quality rust remover with shock effect*

A high quality rust remover to loosen rusted parts by shocking, with a rapid temperature decrease and then using an advanced chemical action to penetrate, lubricate and release the components. Has outstanding lubrication properties and it repels water.

### Applications

- Fasteners
- Connections fastened with screws
- Releases rusted and seized screws, bolts, studs and other seized components

### Characteristics:

- Water repellent
- Temperature range: -50 °C to 170 °C
- Shocks components with rapid temperature reduction



## X1 Silicone spray

*Odourless and colourless dry lubricant*

A high quality odourless and colourless superfine dry lubricant which possesses excellent thermal stability, for all types of general purpose lubrication applications. It penetrates and protects metal, rubber and plastic parts. An ultra thin film dry lubricant with excellent lasting penetrating properties.

### Applications

- Lubricating cables, chains, bearings, pins, links, conveyors and hinges
- Non stick for slides, shutters, drawers, zippers
- Protection of metal surfaces against rust
- Lubricating locks, hinges and other moving parts
- Cleaning vinyl, plastic and rubber surfaces
- Release agent for moulds and castings
- Protects locks from freezing
- Ideal for use in the pharmaceutical and other clean industries

### Characteristics:

- Dry lubricant
- Stops squeaking
- Water resistant and repellent
- Good chemical resistance
- Temperature range: -40 °C to 200 °C
- Non stick - no mess lubrication







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## X1 Ceramic Anti Seize spray

*Protection of all threaded fasteners*

A ceramic base grease, capable of withstanding extreme pressures and temperatures. The Ceramic technology leaves an inert barrier of microscopic platelets long after the grease fails due to high temperatures. It provides with an ultra thin film, giving lasting lubrication and protection.

### Applications

- Assembly grease for; boilers, furnaces, engines, exhausts, heat exchanges, water pumps etc.
- Effective brake anti squeal
- Prevents seizure of exhaust and abs sensors

### Characteristics

- Prevents seizing and galling
- Withstands extreme temperatures
- Water, chemical and weather resistant
- Non metal and non conductive
- Insulates, prevents seizure between dissimilar metals
- Non silicon
- Temperature range: -30 °C to 1100 °C
- Non sagging, suitable for vertical surfaces



## X1 White Grease spray

*Withstands extreme loads and conditions*

A multi purpose, high quality white grease giving excellent lubrication, water and heat resistance. Added BoroTecX™ extends its working life and improves the greases ability to withstand extreme loads and conditions. The White Grease spray is formulated to penetrate linkages, hinges, chains before setting to leave a tenacious long lasting lubricant.

### Applications

- Lubricating bearings, gears, cables and chains etc.
- Protection of metal surfaces against rust
- Lubricating locks, hinges, and other moving parts
- Ideal for tracks and slide conveyors
- Water resistant, can be used on water pumps etc.

### Characteristics

- Stops squeaking
- Water repellent
- Corrosion preventive
- Suitable for vertical surfaces, will not run
- White colour gives visual confirmation of lubrication
- Temperature range: -50 °C to 170 °C
- Non silicon, bodyshop safe







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## X1 PTFE spray

### Light lubricant containing PTFE

A high purity, light lubricant containing PTFE. Suitable for applications requiring a clean, light film. It has outstanding lubrication and water repellent properties.

#### Applications

- Light duty chains, hinges slides and gears
- Ideal for air tools and other small machinery
- Clean product so suitable for use in car interiors
- Will lubricate garden and horticultural equipment
- Ideal for use on commercial sewing and knitwear machinery

#### Characteristics

- High anti-wear characteristics
- Contains PTFE
- Water repellent
- Ultra low friction coefficient
- Temperature range: -40 °C to 120 °C
- Clear clean formula



## X1 Multi-Purpose Foam cleaner

### Effective universal foam cleaner

A high quality foam cleaner/degreaser which dries leaving no visible residue and is safe to use on most hard surfaces and fabrics.

#### Applications

- Whiteboards
- Glass
- Tiles
- Computers, printers etc.
- Safety guards
- Vehicle interiors

#### Characteristics

- Cleans light contamination of grease
- Leaves no residue or streaks after use
- Suitable for fabrics and upholstery
- Non abrasive
- Contains no silicones
- Foaming action ideal for vertical surfaces

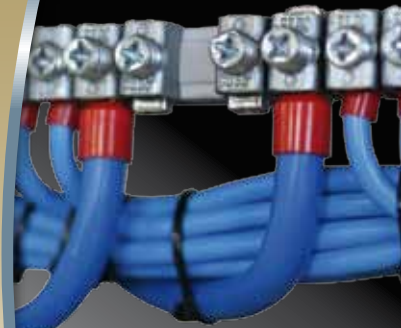




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## X1 Heavy Duty cleaner/degreaser

### Powerful cleaning and degreasing

A heavy duty solvent based, water washable cleaner degreaser which will remove oil, grease, tar etc from most durable hard surfaces.



#### Applications

- Engines and gearboxes
- Heavy plant, machinery and equipment
- Chains and gears
- Motorcycles, lawnmowers, car and marine engines
- Will remove heavy deposits from electric motors
- Suitable for cleaning compressors and most industrial equipment

#### Characteristics

- Heavy duty cleaner
- Can be rinsed off components with water
- Removes grease, oil, tar etc.
- Quickly penetrates grease and oil

## X1 Electrical cleaner

### Effective cleaning of all electronics

A fast evaporating solvent cleaner suitable for cleaning electronics, electrical and other precision equipment.



#### Applications

- Cleaning electronic and electrical components
- Ideal for cleaning air tools, small compressors, etc
- Will clean relays, switches, printed circuits etc.
- Safe on most clear and opaque plastics
- Suitable for removing light dirt from brakes, clutches and carburettors



#### Characteristics

- Leaves no residue
- Fast to evaporate
- Low odour
- Removes dirt, oil, wax etc.





## Unique spraying advantages



3-way spraying



### Wide spray

Easy coverage of large surfaces



### Narrow spray

For powerful precision spraying, no overspray




### Extended spray

The regular nozzle on the aerosol can be replaced by the extended nozzle for precision spraying





**Reference guide**

	<b>X1 Multi-Purpose spray</b>	<b>X1 Cutting &amp; Tapping spray</b>	<b>X1 Chain &amp; Drive spray</b>	<b>X1 Multi-Purpose Weld spray</b>	<b>X1 Freeze &amp; Release spray</b>	<b>X1 Silicone spray</b>	<b>X1 Ceramic Anti Seize spray</b>	<b>X1 White Grease spray</b>	<b>X1 PTFE spray</b>	<b>X1 Multi-Purpose Foam cleaner</b>	<b>X1 Heavy Duty cleaner / degreaser</b>	<b>X1 Electrical cleaner</b>
Lubricates	●	●	●		●	●	●	●	●			
Penetrating	●		●		●	●	●	●	●			
Grease							●	●				
Dry lubricant						●						
Stops squeaking	●					●		●	●			
Adhesive			●									
Creeping	●				●				●			
Removing rust					●							
Anticorrosive	●		●		●		●	●				
Displaces water	●				●	●	●	●				
Water-repellent	●				●	●	●	●	●			
Protecting	●			●	●	●	●	●	●			
Cleans	●									●	●	●
Cooling		●										
High temperature							●					



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