Technical Data



Performance you can trust

ANTI-SEIZE Stainless

Anti-seize paste specially formulated for nimonic and stainless steel

Product Overview

ROCOL® ANTI-SEIZE Stainless is a nickel-free antiseize paste specifically designed for nimonic, stainless and silver coated fasteners particularly those subjected to high temperatures for long periods in the aerospace and power generation industries.

It is designed for use as an assembly and anti-seize lubricant to prevent pick up and seizure even in extreme environmental conditions.

ROCOL ANTI-SEIZE Stainless does not contain copper and exhibits extremely low sulphur and chlorine levels making it ideal for use on exotic alloys often found in the aerospace and other associated industries.

ANTI-SEIZE Stainless was formerly known as ASC251T.

Features and Benefits

- Excellent temperature resistance -40°C +1000°C.
- Provides even torque loads and prevents galling and pick-up on assembly.
- Protects against wet conditions and chemical aggressive attack even in the most environments.
- Excellent anti-seize properties over extended periods at high temperatures.
- Contains extremely low levels of chlorine and sulphur.
- Lubricates, protects and eases dismantling.
- Suitable for use with aluminium and its alloys.

Directions for Storage and Use

- Apply as a thin film by brushing or wiping onto a clean dry surface.
- For best results apply to both the male and female parts.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 5 years from date of manufacture.

Typical Applications

- Aerospace
- Automotive
- Power generation

Specifications

- Rolls Royce MSRR 4008
- Rolls Royce OMAT 4/62
- Rolls Royce OMAT 10123 (spec for V2500)
- Rolls Royce COMAT 10-110
- Naval Cat No.:
 - 0475-179-9539
- NATO Stock No.:
 - 0 8030-99-179-9539
- BAe Systems approved for high nickel alloys

Pack Sizes

| Pack Size | Part Code |
|-----------|-----------|
| 500g | 14143 |

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ROCOL House, Swillington, Leeds LS26 8BS











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| Property | Test Method | Result |
|-------------------------|---|------------------------------|
| Appearance | Visual | Stiff black paste |
| Carrier | N/A | Synthetic hydrocarbon |
| Solids | N/A | Graphite, Inorganic compound |
| Tightening Torque | 100 hours at 1000°C (A286 silver coated nut & bolt) | 11.5Nm |
| Break Loose Torque | 100 hours at 1000°C (A286 silver coated nut & bolt) | 20.2Nm |
| Temperature Range | N/A | -40°C to +1000°C |
| Coefficient of Friction | N/A | 0.085 |
| Approximate Coverage | 0.1mm film thickness | 10m²/kg |

Values quoted above are typical and do not constitute a specification.

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

Issue: 1 Date: 01-11

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ANTI-SEIZE STAINLESS

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Anti-seize agent.

1.3. Details of the supplier of the safety data sheet

Company name: ROCOL

ROCOL House Swillington

Leeds

West Yorkshire LS26 8BS ENGLAND

Tel: +44 (0) 113 232 2700 **Fax:** +44 (0) 113 232 2740

Email: customer-service@rocol.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 113 232 2600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: This product has no classification under CHIP.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: No significant hazard.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous ingredients:

POTASSIUM/ALUMINIUM SILICATE

| EINECS | CAS | CHIP Classification | CLP Classification | Percent |
|-----------|------------|--|--------------------|---------|
| 310-127-6 | 12001-26-2 | Substance with a Community workplace exposure limit. | - | 10-30% |

GRAPHITE POWDER

| 231-153-3 | 7440-44-0 | Substance with a Community | - | 1-10% |
|-----------|-----------|----------------------------|---|-------|
| | | workplace exposure limit. | | |

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a

doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. **Ingestion:** There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use water spray to cool containers. Alcohol or polymer foam. Dry chemical powder.

Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

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6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate

method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: Not applicable.

8.2. Exposure controls

Respiratory protection: Respiratory protection not normally required.

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: Black

Odour: Odourless

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Highly viscous

Melting point/range°C: > 100 Flash point°C: > 150

Autoflammability°C: > 150 Relative density: > 1

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9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion

emits toxic fumes of hydrogen fluoride. Combustion may also generate: decomposition products that may lead to polymer fume fever (24 - 48 hr influenza-like symptoms).

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: Not applicable.

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: Only slightly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Absorbed only slowly into soil.

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12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

Compiled in accordance with REACH.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.