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## Technical Data Bulletin

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### TURCO 4215S

Material. No. 379163

### NONSILICATED ALKALINE CLEANER FOR IMMERSION AND SPRAY SYSTEMS

#### DESCRIPTION:

TURCO 4215S is a yellow, granular mixture developed to clean aerospace metals, including metals that come in contact with LOX. TURCO 4215S is ideal for cleaning fuel and hydraulic components and articles that require adhesive bonding, anodising and conversion coatings.

TURCO 4215S is suitable for use on steels, titanium, nickel, copper and aluminium alloys either in spray or immersion systems at operating temperature from 60-80°C.

TURCO 4215S is not recommended for use on magnesium or its alloys.

#### BENEFITS:

TURCO 4215S offers these benefits:

1. Nonsilicated - easily rinsed from parts.
2. Readily soluble in water recommended concentrations.
3. Leaves waterbreak-free surface.
4. Will not corrode aluminium, steel, titanium, nickel and copper based alloys.
5. Non-foaming at recommended concentrations and temperature.
6. Operates at moderate temperature from 60-80°C.
7. LOX compatible.

#### USE INSTRUCTIONS:

TANKS: Tanks and associated equipment can be fabricated from mild steel or stainless steel.

SPRAY SYSTEMS: Add TURCO 4215S @ 7 - 15g/L of clean water. Operating temperature is from 60-80°C, with a spray pressure of 20 to 30 psi. Normal contact time is from 1 to 2 minutes.

**IMMERSION SYSTEMS:** Add TURCO 4215S @ 30 - 35 g/L of clean water. Operating temperature is from 60-80°C, with air or mechanical agitation. Normal contact time is from 5 to 10 minutes.

**ULTRASONIC SYSTEMS:** Add TURCO 4215S @ 3 - 12 g/L of clean water. Cleaning time is dependent upon the amount and type of soil. For optimum results, do not allow the solution temperature to exceed 43°C during ultrasonic operations.

**RINSING:** Rinse parts with cold to warm water as soon as possible after cleaning.

**NOTE:** Ferrous and aluminium parts should be protected from corrosion. Your HENKEL Representative can recommend a suitable corrosion preventative or water displacing oil based upon your product requirements.

### **CONTROL OF SOLUTION:**

A laboratory test procedure is as follows:-

1. Obtain a sample from the bath and allow it to cool to room temperature.
2. Pipette 50 mL of cool sample into a beaker and add 50 mL of distilled water.
3. Add 5 to 8 drops of Brom Cresol Green Indicator.
4. Titrate with 1N sulfuric acid until colour changes from blue-green to yellow. If pH meter is available, titrate to a pH of 4.0.
5. Record number of mL of 1N sulfuric acid required.
6. Calculation: mL of 1N sulfuric acid x 3.0 = g/L of TURCO 4215S in solution.

### **DISPOSAL INFORMATION:**

Dispose of spent solution per local, state and regional regulations. Refer to your local HENKEL Representative or HENKEL MATERIAL SAFETY DATA SHEET for additional disposal information.

### **CAUTION:**

TURCO 4215S contains chromates and nitrates. Avoid contact with eyes, skin and clothing. Do not take internally. Use with adequate (equivalent to outdoor) ventilation.

Protective clothing, such as a chemical face shield or goggles, gloves, boots and apron, made from alkaline resistant neoprene, should be worn when handling and using this product. A respirator, equipped with a mechanical filter, should be worn for dust or mist conditions.

Store in closed containers away from excessive heat.

Refer to container label, HENKEL MATERIAL SAFETY DATA SHEET for additional handling, storage and first aid information.

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