

BONDERITE C-AK ARR-4181 AERO

Known as TURCO ARR 4181 September 2021

PRODUCT DESCRIPTION

BONDERITE C-AK ARR-4181 AERO provides the following product characteristics:

Technology	Metal Pretreatment
Product Type	Alkaline Cleaner
Application	Immersion process

BONDERITE C-AK ARR-4181 AERO free flowing granular mix formulated to remove paint, shop soils, rust and light scale from jet engine parts by immersion methods. BONDERITE C-AK ARR-4181 AERO highly alkaline and should not be used on tin, aluminum, zinc or any alloy containing these metals as the major constituents. BONDERITE C-AK ARR-4181 AERO will not attack ferrous alloys, magnesium alloys, stainless steels, brass, bronze or Monel alloys when used as directed. BONDERITE C-AK ARR-4181 AERO can be used on titanium alloys at up to 65 g/l of water at temperatures up to 77° C.

Application Areas:

BONDERITE C-AK ARR-4181 AERO is used for metal pretreatment processes.

BONDERITE C-AK ARR-4181 AERO offers these features:

- 1. Nonflammable in powdered or solution form.
- 2. Readily soluble in cold water at recommended concentrations.
- 3. Easily rinses from parts with high pressure water or by immersion methods.
- 4. Removes Sermetal W.
- 5. Solution is controlled by simple titration.

TECHNICAL DATA

(as supplied): Appearance

white powder

DIRECTIONS FOR USE

Preliminary Statement:

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Use instructions

Tanks: Tanks and associated equipment must be fabricated from stainless steel.

Precleaning: Heavily soiled parts should be precleaned to remove excessive oils and shop soils to reduce excessive contamination of the BONDERITE C-AK ARR-4181 AERO bath

Mixing: Fill tank to 3/4 of the operating level with lukewarm, clean water . Add BONDERITE C-AK ARR-4181 AERO , at the ratio of 200 to 340 g/l of the final volume of water, slowly to the top of the tank while mixing and mix thoroughly until powder is dissolved. Never "dump" large quantities of powder into water, since excessive heat may generate local pockets of steam which may lead to a steam eruption. When all powder is in solution, add remainder of cold water. Operate tank from 88° C to 93° C with an immersion time of 15 to 30 minutes.

Note: When processing titanium alloys, use no more than 65 g/l of BONDERITE C-AK ARR-4181 AERO . Operate tank at a temperature no higher than 77 $^{\circ}$ C for 15 to 30 minutes. Higher concentrations and higher temperature may attack titanium alloys.

Rinsing: Rinse parts with high pressure spray rinse or by means of an overflowing, agitated immersion method. An immersion rinse followed by hand spray with air and water rinse is also acceptable.

Solution Level: Solution level should be maintained by the periodic addition of clean, cold tap water for optimum results.

Sludge Removal: Insoluble particles removed by BONDERITE C-AK ARR-4181 AERO should be removed once every three to six months. The use of sludge basket in the bottom of the tank is recommended.



Control Procedure for BONDERITE C-AK ARR-4181 AERO:

- 1. Obtain a sample from tank and allow cooling to room temperature.
- 2. Take a 5.0 ml sample of bath.
- 3. Dilute to 50 ml with distilled water.
- 4. Titrate to pH 11.4 using 1.0 N H2SO4 and note as ml (A)
- 5. Calculations: In g/l: ml x 11.20 = g/l BONDERITE C-ÁK ARR-4181 AERO

Storage:

Temperature, °C -10 to 50 Shelf-life (in unopened original packaging), months 24

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazards identification Transport information Regulatory information

ADDITIONAL INFORMATION

Disclaimer

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Reference 0.1