



TECHNICAL BULLETIN

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NOVACLEAN 19A

NON-SILICATED ALUMINIUM CLEANER

1. DESCRIPTION

Novaclean 19A is a non silicated alkaline cleaner for aluminium, suitable for soak or spray.

Novaclean 19A is non caustic, yet provides a light scrubbing action to lift the soil from the work. On prolonged cleaning a light grey cast will be produced which is similar to a de-oxidised surface. However, this does not indicate any dimensional change or weight loss.

Novaclean 19A should not be confused with typical aluminium etching cleaners. When used as recommended, **Novaclean 19A** will not produce the heavy etching, gassing or smut associated with etching cleaners.

Novaclean 19A is designed for aluminium but is also ideal for removing buffing compounds and tenacious oils from all metals. When used for steel, with no rinse, it provides temporary corrosion protection.

Broad Spectrum Cleaner

- a) Removes a wide variety of soils from aluminium and other metals.
- b) Is suitable for spray and soak applications.
- c) Allows most soils to be removed from the solution surface, thus producing exceptional bath life and eliminating soil redeposition on clean work.
- d) Solutions should be air agitated for best results. It will not give foam problems due to its excellent controlled foam properties.
- e) Does not require a rinse prior to the alkali etch. Therefore, it eliminates the need to a rinse between the soak cleaner and the etch tank.
- f) Is efficiently controlled with a chemical titration.
- g) Contains a built-in defoamer that allows solution concentrations as high as 60 grams per litre to be sprayed at temperatures above 60°C.
- h) Contains no dangerous materials and produces no irritating fumes as a powder or in solution.

2. OPERATING INSTRUCTIONS

Soak Cleaning

Novaclean 19A is used at 20 – 50 grams per litre at temperatures ranging from 40°C – 70°C for 2 to 16 minutes depending on the installation. In general 24 grams per litre at 60°C – 70°C for 4 to 6 minutes produces the most satisfactory results. Work or air agitation should be used if available as it will considerably shorten the time required for good cleaning.

Spray Cleaning

Novaclean 19A is designed to produce a limited amount of controlled foam when used at 60°C or higher. Therefore, it is important to use Novaclean 19A for spray cleaning only where this temperature requirement is satisfactory. Spray nozzle pressure will also tend to produce foam and should be limited to 350 kPa or less. The contact time can be varied between 1 to 3 minutes, depending on the soil and configuration of the parts. Use at a concentration of 10 – 25 g/litre.

3. EQUIPMENT REQUIRED

Standard hot rolled, mild steel tanks equipped with black iron or carbon steel heating coils should be used. Stainless steel equipment can be employed but is definitely not necessary.

In spray operations the standard mild steel equipment normally used in these installations is satisfactory.

4. CONTROL PROCEDURE

- a) Take a 10 ml sample of the bath solution.
- b) Add 3 drops of Bromophenol Blue indicator.
- c) Titrate with 1.0N H₂SO₄.

Mls 1.0N H₂SO₄ x 14.0 = concentration of **Novaclean 19A** in grams per litre.

5. PACKAGING

Novaclean 19A is packed in 25 kg bags.

DISCLAIMER

Any information given is, to the best of our knowledge, the best currently available, with respect to our products and their use, but it is subject to revision as additional knowledge and experience is gained. Such information is offered as a guideline for experimentation only and is not to be construed as a representation that the material is suitable for any particular purpose or use. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use. This information is not a license to operate under nor is it intended to suggest infringement of any patent. We guarantee a uniform quality standard for this product. The only conditions and warranties accepted by Henkel in relation to this product or process are those implied by either Commonwealth or State statutes.