

RIAG Clean 620

Liquid degreasing process

RIAG Clean 620 is a mild alkaline degreasing process for iron and nonferrous metals.

Properties

- Mild alkaline liquid (pH value about 8)
- Suitable for iron, steel, aluminium, brass or copper
- Usable for soak-, ultrasonic- or spray applications
- Recyclable through membrane filtration when using **RIAG Clean 625 Demulsifier**

Ingredients

- Phosphates

Make up of 100 Litres

RIAG Clean 620 Additive,
liquid

2 – 6 L

Temperature

40 – 90 °C

Time

1 – 10 min.

Density (20 °C)

Standard value

RIAG Clean 620 Additive 20 mL/L

1.012 g/cm³

RIAG Clean 620 Additive 60 mL/L

1.037 g/cm³

Make up

The tank is filled to $\frac{2}{3}$ with water and heated to approx. 40 °C. Add the calculated amount of **RIAG Clean 620 Additive** and stir. Now add a detergent booster, if required. Finally add water until the working level has been reached. Once the cleaner has reached its working temperature, it is ready for use.

Operating parameters

Agitation	Recommended (shorter treating time), as it supports the cleaning process
Tanks	Plastic or lined steel, when using ultrasonic high alloy steel
Heating	Immersion heaters, but thermostatic control is essential.
Fume extraction	Recommended
Water	Tap water may be taken for the makeup, however the use of low calcium or DI water is recommended.

Maintenance

RIAG Clean 620 should be analysed and corrected regularly. If a detergent booster is used, the replenishment should be carried out in the same ratio as the make up.

Environmental considerations

All concentrates, rinse waters and waste solution must be treated and discharged in accordance with local effluent control regulations. Further information can be gleaned from the MSDS. Chemicals may not be stored below 10 °C:

Liability

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Analysis (Analytical methods)

Sample preparation:

The sample must be taken from a well-mixed location and allowed to cool down to 25 °C.

Reagents: Hydrochloric acid 1 mol/L
 Methyl orange solution 0.1 % in water

Procedure: 50 mL **RIAG Clean 620** are transferred via pipette into a
 250 mL beaker, add
 50 mL deion. water, add
 10 drops methyl orange solution

 Titrate with hydrochloric acid 1 mol/L from yellow to red

Calculation: **RIAG Clean 620 Additive** (mL/L) = use of HCl in mL x 5.4

Adding 2.4 g/L **RIAG Clean 620 Additive** will increase the density 0.001 g/cm³.

If the degreasing process doesn't work properly, even though the concentration is within the desired range, a new makeup is necessary.

Attention:

Chemicals not intended to be added to the process may disturb and influence the quality of the processed surfaces.