

RIAG Clean 622

All-purpose degreasing process

RIAG Clean 622 is a high alkaline degreasing process, which is intended to be used in immersion or spray applications for iron, steel or copper alloys. It is usable for the electrolytic degreasing or for stripping of phosphate layers.

Properties

- High alkaline liquid
- Excellent conductivity
- Suitable for spraying equipment
- Demulsifying, recyclable (in combination with **RIAG Clean 625 Demulsifier**)
- Emulsifying (in combination with **RIAG Clean 669 Emulsifier**)

Ingredients

- Phosphates
- Potassium hydroxide
- Organic acid sodium salt
- Amines

Make up of 100 Litres RIAG Cleaner 622

	dephosphating	soak	electrolytic
RIAG Clean 622 Additive , liquid	5 – 10 L	2 – 7 L	10 – 15 L
RIAG Clean 625 Demulsifier* , liquid	0.2 – 1.0 L	0.2 – 1.0 L	
RIAG Cleaner 669 Emulsifier* , liquid		0.6 – 1.0 L	
Temperature	50 – 80 °C	50 – 80 °C	20 – 70 °C
Time	5 – 30 min.	2 – 10 min.	1 – 5 min.

*depending on the type of degreasing, if it should be demulsifying or emulsifying

Density (20 °C)

RIAG Clean 622 Additive	20 mL/L
RIAG Clean 622 Additive	100 mL/L

Standard value
1.007 g/cm ³
1.043 g/cm ³

Make up

The tank is filled to $\frac{2}{3}$ with water. Add the calculated amount of **RIAG Clean 622 Additive** and stir well. Adjust, if required, the correct amount of detergents (**RIAG Clean 625 Demulsifier** or **RIAG Clean 669 Emulsifier**) and finally add water up to the working level. 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.

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.

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Analysis (Analytical methods)

Sample preparation:

Take sample from a well-mixed location and allow to cool down to 25 °C.

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

Procedure: 50 mL **RIAG Clean 622** are transferred via pipette into a
250 mL beaker, add
100 mL deion. water, add
5 drops methyl orange solution

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

Calculation: **RIAG Clean 622 Additive** (mL/L) = use of HCl in mL x 2.49

Adding 3.0 g/L **RIAG Clean 622 Additive** will increase the density 0.001 g/cm³.

Maintenance

RIAG Clean 622 Additive may be used together with **RIAG Clean 625 Demulsifier / RIAG Clean 669 Emulsifier** with different concentrations, due to the various possibilities of application. The concentration has to be checked after each make up by analysis or density to stay in the desired working range.

The replenishment of **RIAG Clean 622 Additive** and **RIAG Clean 625 Demulsifier / RIAG Clean 669 Emulsifier** should be carried out in the same ratio as the make up. This ratio has to be determinate.

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.