

## riag Clean 687

### Degreasing process with very high cleaning efficiency

The **riag Clean 687** is a degreasing process with an excellent cleaning performance, which is intended to be used for iron and steel. The main applications are industrial parts cleaning, cleaning before and after heat treatment, especially before gas- and plasma nitriding. There are no negative influences of remaining cleaner on the part.

### Properties

- Liquid
- Suitable for steel and magnesium (depending on the alloy)
- Spraying possible above 60 °C
- Demulsifying
- Temporary corrosion protection
- Usable with tap water

### Ingredients

- Amines
- Organic acid sodium salt
- Nonionic surfactants
- Anionic surfactants

### Make up of 100 Litres

#### riag Clean 687 Additive

Temperature

Time

Range		Optimum	
1 – 4	L	2.5	L
40 – 80	°C	70	°C
5 – 30 min.			

### Make up

The tank is filled to  $\frac{2}{3}$  with water. Add the calculated amount of **riag Clean 687 Additive** and stir well. 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 make up, however the use of low calcium or DI water is recommended.

## Maintenance

**riag Clean 687** is used in 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.

## 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:

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 687** are transferred via pipette into a  
250 mL beaker, add  
50 mL deion. water, add  
5 drops methyl orange solution  
Titrate with hydrochloric acid 1 mol/L from yellow to red

Calculation: **riag Clean 687 Additive** (g/L) = use of HCl in mL x 8.33

### Attention:

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