

**SAFKLEEN 421**

Degreasing Agent

**DESCRIPTION**

**SAFKLEEN 421** is an alkaline water-based cleaner used for degreasing and removal of oils, greases, stearates and crystalline phosphate layers on ferrous materials and steels.

**APPLICATIONS**

**SAFKLEEN 421** is used in all types of industries and is suitable for the removal of quenching oils, neat and soluble metalworking fluids.

**SAFKLEEN 421** can be used by spraying in washing machines where perfect cleaning is required before heat treatment.

**SAFKLEEN 421** can be used by spraying up to 5 bars, by dipping or by ultrasonic in a temperature range from 50°C to 70°C.

**ADVANTAGES**

- Adapted to the fasteners market
- Powerful degreasing
- Easy ton rinse
- Boron free
- Very good bio-stability
- Biodegradable

**TECHNICAL INFORMATION**

CHARACTERISTICS	UNIT	METHOD	SAFKLEEN 421
Color	-	-	Colorless
Density at 20°C	-	ISO 12185	1.334
pH at 1% in water	-	NFT 60.193	12.4
Break Point Corrosion	%	IP 287	< 2
Refractometer factor	-	M 15	1.4

The specifications are given for information purposes only and may need to change.

**RECOMMENDED CONCENTRATIONS**

- Soluble cutting fluid: 3-5%
- Polishing paste: 5-10%
- Crystalline phosphate layer: 5-10%

## CONCENTRATION CONTROL

The control of the bath of **SAFKLEEN 421** is carried out as followed:

- Take 10 mL of bath with a calibrated pipette and add 5/6 drops of phenolphthalein indicator, the solution will color in red-violet
- Titrate with 0.1N HCl until complete color change from pink to violet to colorless.

**Concentration of SAFKLEEN 421: Concentration % = mL HCl 0.1N X 0.15**

## HEALTH & SAFETY

- Free from chlorinated additives and boron
- Good dermatological behavior for better user comfort
- Frost-free storage in a dry place