PRODUCT INFORMATION

FEROCLEAN N 402 K

INDUSTRIAL CLEANER FOR HIGH PRESSURE AND US APPLICATIONS

DESCRIPTION

FEROCLEAN N 402 K is a liquid, salt-free, neutral cleaner based on alkanol amines and organic acids.

FEROCLEAN N 402 K is foam free in use from 20 °C. It is suitable for flood, dip and spray applications on components made of steel or cast iron. Some aluminium and non ferrous metals are also suitable but would require a small scale test first for compatibility.

The product is suitable for ultrafiltration, e.g. with a ceramic membrane at 40 °C with a cut off at 0.05 µm.

Due to its modern formulation FEROCLEAN N 402 K does not contain formaldehyde, nevertheless it shows a very good long term process stability compared to other cleaners. The cleaner is also silicate and boron free.

For preparing the cleaning solution, we recommend bringing the preparation water to application temperature and then adding the concentrate to the preparation water at a well agitated area of the system. The application concentration should be 1 - 5 %.
FEROCLEAN N 402 K is optimised for application temperatures of 20 - 50 °C, but use up to 65 °C is possible without any problems. We recommend using deionised water.

BENEFITS

- Very good demulsifying properties on cutting fluids, quenching oils and metal working emulsions
- Suitable for soft as well as hard water
- Excellent corrosion prevention even in hard water
- Application range 20 - 50 °C
- Silicate and boron free

APPROVALS

- Corpac Deutschland GmbH
- SensAction AG
- SITA Messtechnik
- SUGINO
- Hammelmann GmbH
- INTERCEPT Technology (PE-LD)
- Fulfills DBL 6575, suppl. 5
- Fulfills DBL 6570, suppl. 10
- Paint compatibility according to BMW Group Standard AA-0244

PHYSICAL DATA

Appearance/20 °C (visual)	clear, light yellowish to reddish liquid*
Density/20 °C (DIN 51659-2)	approx. 1.042 g/cm³
pH value/20 °C (DIN 51369) 3 % in DI-water	approx. 9.8
Chip/Filter paper method (DIN 51360/2, one hour) 1 % in DI-water	0-1
COD (ISO 15705) 2 % in DI-water	approx. 13000 mg O_2/l

* The color is affected by the storage conditions. It does not affect the product quality or performance.

FACTORS FOR THE DETERMINATION OF CONCENTRATION

(concentration [%] = consumption ml hydrochloric acid x factor):

- Titration of a 10 ml sample with 0.1 N HCl up to pH 4, factor: 0.39
- Titration of a 10 ml sample with 0.5 N HCl with methyl orange from yellow to red, factor 1.95
- Titration of a 50 ml sample with 0.5 N HCl with methyl orange from yellow to red, factor 0.39
- Titration of a 10 ml sample with 0.1 N HCl with bromocresol green from blue to yellow, factor 0.39
- Refractometer factor: 2.4 (concentration [%] = reading x factor)

HANDLING AND STORAGE

FEROCLEAN N 402 K must be stored in a frost free environment, ideally above 5 °C.
Always observe the use by date on containers.

Only valid in combination with EC Safety Data Sheet
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