



NEUTRAL CLEANERS
ALKALINE CLEANERS
HYDROCARBON CLEANERS
SPECIALISED CLEANERS

INDUSTRIAL CLEANERS

INDUSTRIAL CLEANERS

For cleaning of component surfaces, PETROFER offers a broad range of industrial cleaners. Developed using the latest findings from research and technology while taking into account ecology and occupational safety, these products satisfy the requirements of all modern cleaning applications. PETROFER cleaners ensure long service life with low maintenance. PETROFER offers tailored cleaners, whether as individual products or as custom-designed system solutions for manufacturing processes.



A NEUTRAL CLEANERS

Neutral cleaners are used both for inter-stage and final cleaning of metal surfaces. PETROFER's neutral cleaners are excellent demulsifiers, formulated to enable easy separation of the oils removed during cleaning.

FEROCLEAN	PROPERTIES		APPLICATION		MATERIALS			SOILS			
	pH@2% concentration	Temperature range °C	Spraying (high & low pressure) flood	dipping & ultrasonic	Cast iron, steel, stainless steel	Yellow metals	Aluminium	Emulsions	Neat metalworking and quenching oils	Drawing and polishing oils	Wax and pastes
A 185 – THE UNIVERSAL ONE salt-free, demulsifying neutral cleaner, suitable for cleaning operations on cast iron and steel in mechanical production and heat treatment processes	10.3	45–70	■	■	■	■	■	■	■	■	■
A 285 – THE HOT ONE salt-free, demulsifying neutral cleaner, provided with good thermal surfactant stability	10.2	50–75	■	■	■	■	■	■	■	■	■
N 402 K– THE COOL ONE demulsifying neutral cleaner, foam-free in use from room temperature, stable over long periods	9.8	20–50	■	■	■	■	■	■	■	■	■
N 404 – THE BOOSTER demulsifying neutral cleaner, for use in high pressure applications for many metals	9.2	40–70	■	■	■	■	■	■	■	■	■
N 502 – THE ACOUSTIC ONE salt-containing neutral cleaner, suitable for ultrasonic assisted cleaning	10.0	60–70	■	■	■	■	■	■	■	■	■
N 600 – THE DE-BURRER suitable for pressures up to 1200 bar, surfactant-free and functional over a wide temperature range, stable for long periods	9.6	20–80	■	■	■	■	■	■	■	■	■
N 610 – THE DEMULSIFIER suitable for pressures up to 1200 bar, surfactant-free and functional over a wide temperature range, stable for long periods and with excellent strong demulsifying properties	9.7	20–80	■	■	■	■	■	■	■	■	■
N-SF – THE HARDENER suitable for cleaning operations prior to heat treatment, with temporary corrosion protection	9.0	50–80	■	■	■	■	■	■	■	■	■

We recommend using soft water with an overall hardness of less than 5 °dH

■ suitable ■ limited suitability ■ not suitable



B ALKALINE CLEANERS

Alkaline cleaners are used when high cleanliness of the metal surface is essential – For example, in preparation for galvanizing or painting. Highly alkaline cleaners are recommended for use in multiple-zone units as they help prevent salt residues from drying onto work pieces.

FEROCLEAN	PROPERTIES		APPLICATION		MATERIALS			SOILS			
	pH@2 % concentration	Temperature range °C	Spraying (high & low pressure) flood	dipping & ultrasonic	Cast iron, steel, stainless steel	Yellow metals	Aluminium	Emulsions	Neat metalworking and quenching oils	Drawing and polishing oils	Wax and pastes
A 118 Strong cleaner containing salt, especially suited for removing lapping compounds and flux	11.3	50–75									
A 122 Very strong cleaner containing salt, ideal for removing pigments and insulating pastes	12.4	50–75									
A 15 De-phosphating cleaner with exceptional performance	13.3	60–90									

■ suitable
 ■ limited suitability
 ■ not suitable



C HYDROCARBON CLEANERS

PETROFER offers a range of cold cleaners based on hydrocarbons as alternatives to halogen-hydrocarbon-based products. These fluids are odourless and contain no chlorine, fluorine or aromatic compounds. Hydrocarbon cleaners are only suitable for degreasing operations. The flammability and flash point of these products should be taken into consideration when specifying them.

FEROCLEAN	FLASH POINT	BOILING RANGE	V@20 °C
L 888 De-greasing agent for removal of low viscosity oils. Very narrow boiling range for fast residue-free evaporation.	42°C	150–190	1.27
L 261 For removal of low/medium viscosity oils. Rapidly evaporating product with good flash point/drying ratio. Also available in dispersive variant.	62°C	180–205	1.85
L 383 For removal of viscous oils and fats. Non VOC High flash point product.	85°C	210–260	3.2
L 118 For removal of viscous oils and fats. Non VOC High flash point product.	102°C	230–260	3.3
LE 643 K Solvent-based emulsifying cold cleaner for removing caked-on residues. Can be washed off with water after brief soaking.	62°C	n/a	2.9



EFFICIENT
CLEANING PROCESS



SPECIALISED CLEANERS

In addition to our standard product range, PETROFER offers a number of special cleaners. These can be available either separately or as part of a customised cleaning system for an entire production process. FeroClean N-SF, for instance, is designed to work with our quenching oils. Also many of our alkaline and neutral cleaners are available in cold application variants.

FEROCLEAN	APPLICATION RANGE	PH	TEMPERATUR
EC 10 HD Emulsion cleaner with excellent corrosion protection	For spraying and dipping applications. Can be used at room temperatures up to 70 °C. Suitable in water hardness range: 160 - 350 ppm CaCO ₃ .	9.6	20–70 °C
N-AR Water-soluble multi-purpose cleaner	For workshop floor and general cleaning. Also suitable for plastic tray washing in high-pressure cleaning machines	9.3	15–80 °C
SM Acid system cleaner for de-scaling	For removal of calcium residues, water scale and other pigments	1.7	20–70 °C
S 400 Acid system cleaner for basic machinery cleaning, free of citric acid	For removal of calcium residues, water scale and other pigments	2.0	20–70 °C
S 660 Neutral pickling agent	For removal of oxide products, e.g. after thermal deburring	6.6	30–70 °C

AUXILIARY MATERIALS FOR AQUEOUS CLEANING BATH

PRODUCT GROUP	APPLICATION RANGE	
ISOADD S-SERIES	Wash enhancer for boosting washing performance	0.05–0.20% for dip and spray washing applications
ISOADD F-SERIES	Defoamer	0.01–0.10% 1:1 diluted
ISOADD D 903	Demulsifier mixture	Removes metal working emulsions and oils from cleaning baths; application: 0.05–0.20%
ISOADD C 200 AQUAPLUS 22 AQUAPLUS KS0	Additives for increasing corrosion protection	





PETROFER
industrial oils and chemicals

PETROFER Chemie | H.R. Fischer GmbH + Co. KG | Post box 10 06 45 | D-31106 Hildesheim | Germany
Phone +49 5121 76 27 0 | Fax +49 5121 5 44 38 | Mail info@petrofer.com | www.petrofer.com