AquaVantage® 815 QR-NF

Heavy-duty immersion & ultrasonic detergent · mildly alkaline concentrate

KT-CC-BLN-815QRNF

DILUTION	TEMPERATURE	CYCLE TIME	PH CONCENTRATE
5–30%	**54–77 °C**	**3–10 min**	**12.5**
typically 10%	typically 60–66 °C	range 1–30 min	alkaline

DESCRIPTION

AquaVantage 815 QR-NF is a heavy-duty detergent formulated for the most tenacious soils — heavy greases, baked carbon and difficult residues — in immersion, ultrasonic and mildly agitated cleaning systems. It cavitates efficiently in ultrasonics to give a water-break-free or higher level of surface cleanliness, and offers broad compatibility across steel, aluminium and most substrates. Designed for global regulatory acceptance: no REACH SVHC, RoHS compliant.

KEY BENEFITS & industries

- Aggressive cleaning of the most tenacious soils
- Cavitates at all working temperatures
- Extends bath life, reducing consumption and disposal
- Separates oil effectively for easier skimming
- Free rinsing — permits improved adhesion
- In-process corrosion control; short-term flash-rust inhibitor
- No REACH SVHC · RoHS compliant
- Fewer cleaning reworks and rejects

DPF & EGR cleaning · Engine reconditioning · Heavy diesel & mining · Precision manufacturing · General workshop

TYPICAL CHARACTERISTICS

from SDS §9

Form / appearance	Blue liquid
Odour	Citrus
Solubility in water	Fully soluble
Density	1.065 g/cm³
pH, concentrate	**12.5**
Flash point	Does not flash
Boiling point	100 °C

Typical values only — consult the specification sheet. Sourced from the Kleentek SDS (KT-CC-BLN-815QRNF).

USE RECOMMENDATIONS

System	Immersion and ultrasonic tanks
Dilution	**5–30%, typically 10%**
Cleaning temperature	**54–77 °C**, typically 60–66 °C
Cleaning duration	1–30 min; typical parts clean in 3–10 min
Rinse	A heated rinse may improve performance; some OEM specifications require one. Final-rinse conductivity: ultra-clean < 50 µS/cm · precision < 500 µS/cm · gross > 500 µS/cm

To avoid spotting, keep parts wet between processing stages. Contains a short-term flash-rust inhibitor; for longer protection, ask Kleentek for a dedicated rust preventative.

MATERIAL COMPATIBILITY

Ferrous — carbon steel · stainless steel
Non-ferrous — aluminium · chrome plating · magnesium & magnesium alloys · titanium & titanium alloys
Plastics & composites — HDPE · nitrile butadiene rubber · PVC
Other — glass

Not suitable
Copper, brass and bronze — the ethanolamine content attacks copper alloys and can cause stress-corrosion cracking in brass.
Zinc, tin and soft solder are not documented — test before use.

Non-corrosive and non-staining to a wide variety of alloys. Always confirm compatibility by testing with your specific contaminants under your specific cleaning conditions.

SOILS REMOVED

Buffing compounds · carbon · coolants · particulate dirt · fats · flux · grease · inks · oils (general, cutting, drawing, fingerprints, forming, honing, hydrocarbon, lubricants, self-emulsifying, silicone, sulphur/chlorinated, water-soluble) · tar & pitch · waxes

BATH MAINTENANCE

Monitor concentration by titration, skim separated oils, and top up to the working concentration rather than letting it drift.

CONCENTRATION VERIFICATION

titration

KIT — DROPS

Sample	5 mL
Titrant	1.0 N HCl
Indicator	Bromophenol blue, 2 drops
Result	**drops × 0.46 = %**

KIT — 50 ML

Sample	50 mL
Titrant	0.5 N HCl
Endpoint	pH 3.8
Result	**mL × 0.55 = %**

BURETTE METHOD

Sample	50 mL
Titrant	0.5 N acid
Endpoint	pH 4.50
Result	**mL × 0.56 = %**

AVAILABILITY

& quality

10 L	KT-CC-BLN-815QRNF-10
20 L	KT-CC-BLN-815QRNF-20
200 L	KT-CC-BLN-815QRNF-200
1,000 L	KT-CC-BLN-815QRNF-1000

Minimum order quantity 10 L. Manufactured under Kleentek's ISO 9001:2015 certified quality management system — a Certificate of Analysis for the supplied batch is available on request.

TRANSPORT

Dangerous goods — UN 2491, Class 8, PG III. Proper shipping name: ETHANOLAMINE SOLUTION.

SAFETY & HANDLING

Classified as hazardous — GHS Danger. Wear chemical-resistant gloves, protective clothing and eye/face protection when handling the concentrate. Refer to the Safety Data Sheet (KT-CC-BLN-815QRNF) for classification, handling, storage, transport, spill response and disposal; the SDS takes precedence over this document in all matters of safety.