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Keyvex™ AQ 110

Keyvex™ AQ 110 is a pH-neutral aqueous cleaning fluid designed for effective removal of machining oils, light greases, fingerprints, and particulate contamination from metal and compatible engineered surfaces. Its advanced surfactant system provides effective wetting, emulsification, and soil dispersion, making it suitable for ultrasonic, immersion, and general industrial precision cleaning applications.

Key Performance Characteristics

- Neutral aqueous cleaning formulation
- Effective removal of machining oils, light greases, fingerprints, and particulate contamination
- Strong wetting, emulsification, and soil-dispersion performance
- Suitable for ultrasonic and immersion cleaning processes
- Water-dilutable for flexible process concentration
- Good compatibility with a broad range of industrial materials

Applications

- Ultrasonic and immersion cleaning of machined, stamped, fabricated, and precision metal components
- Removal of machining oils, light greases, fingerprints, handling residues, and particulate contamination
- General aqueous degreasing of ferrous and compatible non-ferrous metal components
- Pre-cleaning of components prior to assembly, inspection, coating, plating, bonding, or other downstream manufacturing processes
- Cleaning of compatible engineered plastics, ceramics, and glass components where process conditions have been validated

Industries Served

- Automotive
- Electronics
- Precision Engineering
- Industrial Manufacturing
- Metal Fabrication

Physical and Chemical Properties

Appearance	Light yellow liquid
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Density, g/cm ³	1.03 ± 0.02
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pH (10% aqueous solution)	6-7
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Solubility	Soluble in water
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Environmental & Regulatory Status

Keyvex™ AQ 110 is a water-based cleaning formulation that is not classified as hazardous according to the product SDS. The formulation is described as rapidly biodegradable and suitable for removal through appropriate wastewater treatment processes. Refer to the latest Safety Data Sheet and applicable local regulations for further information.

Materials Compatibility

Metals	Compatible with Stainless steel (304, 316), carbon steel, cast iron, tool steel, titanium, nickel, nickel alloys, and chromium-plated steel. Use with caution with aluminum, brass, copper, bronze, galvanized steel, zinc.
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Plastics	PE, HDPE, LDPE, PP, PVC, PTFE, PFA, FEP, ETFE, PVDF, PEEK, PET, PPS, PSU, and UHMW-PE.
Elastomers	EPDM, FKM, PTFE, NBR, and FFKM.
Ceramics & Glass	Soda-lime glass, fused silica, quartz, alumina, zirconia, silicon carbide, silicon nitride, aluminum nitride, mullite, cordierite.

Process Guidance

Recommended use	Ultrasonic, immersion, and compatible aqueous cleaning processes for removal of machining oils, light greases, fingerprints, particulate contamination, and general manufacturing residues.
Equipment	Use clean equipment constructed from compatible materials. Suitable for ultrasonic, immersion, and appropriately designed aqueous spray-cleaning systems.
Operating Temperature	- Metals: 60–70°C - Plastics, polymers, and sensitive components: 25–50°C
Cleaning Time	- Metals: Typically 2–15 minutes - Sensitive components: Typically 1–10 minutes Adjust according to contamination level, component geometry, cleaning method, and material sensitivity.
Rinsing	Rinse with clean water or DI water where residual cleanliness is important. Final rinse quality should be selected according to the required surface cleanliness and downstream process.
Drying	Dry using forced air, hot air, or another validated drying method appropriate for the component and downstream process.
Drag-Out Control	Allow cleaned components to drain adequately before transfer to the rinse stage. Appropriate rack orientation and drain time can reduce chemical carryover and cleaning-fluid consumption.

Bath Maintenance

Remove floating oils, accumulated sludge, and particulate contamination at regular intervals. Filtration and oil separation may be used where appropriate. Replenish Keyvex™ AQ 110 and water as required to maintain the desired bath concentration and cleaning performance. Replace the bath when accumulated contamination prevents acceptable cleaning performance from being restored.

Monitoring

Periodically monitor:

- bath concentration
- pH
- operating temperature
- contamination loading
- bath appearance
- cleaning performance

Where a validated concentration-control method is available, bath replenishment should be based on measured concentration rather than fixed-volume additions.

Bath preparation

Fill the cleaning tank with the required quantity of water. Add Keyvex™ AQ 110 gradually while circulating or agitating the bath. Mix thoroughly and heat to the required operating temperature before use.

Recommended Concentration

- General cleaning: 10–20% by volume in water.
- Light soil or sensitive components: 5–15% by volume in water.

Final concentration should be optimized according to soil loading, substrate compatibility, cleaning method, and required cleanliness level.

Waste Disposal

Dispose of waste product in accordance with applicable regulations. Do not release into the environment. Recover or recycle the product whenever practical. Refer to the SDS for detailed disposal guidance.

Storage Handling & Shelf Life

- Store in a cool, dry, well-ventilated area away from direct sunlight and heat sources.
- Keep containers tightly closed when not in use.
- Ensure the storage area is equipped with appropriate spill response equipment and containment materials.
- Avoid freezing and excessive heat.
- Shelf life: 12 months

Packaging

20 L/pail (20kg) or 200L/drum (200 kg)

Safety Statement

This document is not a Safety Data Sheet. Before handling, storage, transport, or disposal, users should review the latest Safety Data Sheet and conduct a workplace risk assessment according to local regulations.

Although no closed-cup flash point is reported, vapors may form flammable mixture under certain conditions and in the presence of high-energy ignition sources. Use only with suitable vapor control, ventilation, and equipment grounding.

Limitation/Validation Statement

The information provided represents typical values and should not be treated as product specifications unless expressly stated. Suitability for a specific application should be confirmed by customer testing under actual operating conditions.