

# AQ-710

## Alkaline Aqueous Cleaner

AQ-710 is a high performance cleaner for a broad spectrum of soils. A low-foaming allpurpose glycol-free alkaline cleaning solution with a unique blend of surfactants and corrosion inhibitors, it meets or exceeds the specifications for most aerospace applications for aqueous and alkaline cleaners.

AQ-710 is designed for immersion, ultrasonic and spray applications, and is safe for use on most metals. It is non-aggressive towards aluminum, magnesium and titanium alloys, and can be used in concentrations up to 25 percent. It is moderately alkaline with low foaming levels for use in spray applications, contains inhibitors to protect metal surfaces from corrosion and it is also tolerant of hard water.

Designed as a high-performance cleaner on aluminum, anodized aluminum, brass, bronze, carbon steel, stainless steel, cast iron, copper, magnesium, nickel, super alloys and plated metals, it also works well on titanium.

AQ-710 is excellent at removing water-soluble oils, machining fluid, synthetic coolants, medium weight and lube oils, motor oils, buffing compounds and heavy petroleum oils. It is also effective on carbonized soils.

AQ-710 is formulated with soil-rejecting properties, which suspend the solids in the cleaner after lifting them from the test material. When the soils have settled out and lighter greases coalesce and float, the cleaner solution can be filtered and skimmed, extended the effective lifespan of the cleaner significantly beyond an emulsion type cleaner.

### SPECIFICATIONS COMPLIANCE

- ASTM F 1110
- ASTM F 1111
- AMS 1551A Class 2\*
- ARP 1511
- ARP 1755B
- ASTM F519\*
- ASTM F945 Method A
- GEAE Method 22, 51145\*
- Honeywell C 148
- PWA 36604-Hot Corrosion\*, Non-Metallic\*, Stock Loss, Stress Corrosion
- PWA 407 Rubber\*
- RR CSS 204 Type A\*
- SCAQMD\*

\*Approval is pending

### BENEFITS

- Alkaline cleaner
- SCAQMD Clean Air Certified\*
- Low foam level
- Rust inhibitor
- Works on a wide range of materials
- Cleans a broad spectrum of soils

### APPLICATIONS

**Cleaning methods:**

- Dipping / immersion cleaning
- Ultrasonic cleaning

**Ideal for:**

- Aluminum
- Anodized aluminum
- Brass and bronze
- Carbon steel
- Cast iron
- Stainless steel
- Copper
- Magnesium
- Nickel
- Super alloys
- Plated metals
- Titanium

**Removes:**

- Buffing compounds
- Carbonized soils
- Cutting fluids
- Heavy oils and dirt
- Lubricant oils
- Machine oils
- Machining fluid
- Medium weight and lube oil
- Motor oil
- Synthetic coolant
- Water-soluble oils

**Applications:**

Excellent	••••	Aluminum	Anodized Aluminum	Brass & Bronze	Carbon Steel & Cast Iron	Copper	Magnesium	Nickel & Superalloys	Plating (Cd, Cr, Ir, Pt)	Stainless Steel	Titanium	Zinc
Good	•••											
Fair	••											
Poor	•											
Not Recommended												
Water-Soluble Oils	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Machining Fluid	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Synthetic Coolants	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Medium Weight Oils	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Lube Oils	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Buffing Compounds	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Motor Oils	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Heavy Petroleum Oils	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
Carbonized Soils	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Railroad & Axel Grease												
Glues												
Spray Adhesives												

**PROPERTIES**

<b>pH Level</b>	Alkaline
<b>Foam Level</b>	Low
<b>Silicates</b>	Yes
<b>Phosphates</b>	No
<b>Hard Water Tolerance</b>	Moderate
<b>Aerospace Compliant</b>	Yes
<b>SCAQMD Certified</b>	Pending

**USE RECOMMENDATIONS**

Cleaning Method	Concentration	Temp.	Typical Duration
Immersion	3–25%	80–180°F / 27–82°C	2–30 mins
Ultrasonic	3–25%	80–180°F / 27–82°C	2–30 mins
Spray	1–12% Recomm.: 2–5%	130–180°F / 54–82°C	0.25–3 mins
Steam	1–12%	150–200°F / 66–93°C	1–5 mins

**PACKAGING**

55 gal / 208 L drum  
5 gal / 20 L pail

**INSTRUCTIONS FOR USE**

Dilute cleaner with water to the appropriate concentration or use. Cleaning efficiency can be improved with agitation and heat. Increasing cleaning bath temperature will decrease foaming.

**Maintenance Recommendations**

Maintain cleaning bath by skimming and/or filtering. Check in-use cleaner concentration to maintain cleaning effectiveness. The recommended method for measuring concentration is titration method.

Concentration Verification: HACH Alkalinity Titration Kit\*

<b>Titrant</b>	0.5N Sulfuric Acid
<b>Indicator</b>	Bromcresol Green-Methyl Red
<b>Concentration %</b>	Titrant drops x 1.43

\* Ordering info: Alkalinity Test Kit, Model AL-TA; Product # 2314500; Mfr. Hach Company; Website [www.hach.com](http://www.hach.com)

**HEALTH AND SAFETY**

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the product Safety Data Sheet, which is available at [www.magnaflux.com](http://www.magnaflux.com).