

Product Bulletin

ASR OPTITREAT DT 388 pH Controller for Cooling Tower Water

PRODUCT DESCRIPTION

ASR OPTITREAT DT 388 is a proprietary acidic buffering formulation developed to maintain optimum pH levels in industrial cooling water systems. It effectively neutralizes alkalinity and scale-forming ions, enhancing the efficiency of corrosion and deposit control programs. The product provides precise pH regulation, ensuring system stability, better heat transfer, and reduced maintenance frequency.

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value
Form	Clear liquid
Appearance	Colorless to slightly hazy
Odor	Sharp acidic
Specific Gravity @25°C	1.26 – 1.28
pH (1% solution)	< 1.0
Solubility	Completely miscible in water
Freezing Point	-5 °C
Boiling Point	>100 °C
Flash Point	Non-flammable
Stability	Stable under normal storage conditions

NOTE: These physical properties represent typical values and should not be considered specifications. For detailed information, refer to the product's Safety Data Sheet (SDS).

APPLICATIONS

- pH control and alkalinity reduction in open recirculating cooling systems
- Adjustment of make-up and circulating water chemistry
- Prevention of scale formation and deposition through controlled buffering action
- Optimizes performance of corrosion and dispersant treatment programs

DOSAGE & FEEDING

ASR OPTITREAT DT 388 should be dosed continuously or intermittently depending on system pH and alkalinity levels. The typical feed rate ranges from 10 to 50 mL per ton of

circulating water, depending on system demand. Feed directly into the recirculating line or dosing tank using a chemical metering pump. Your ASR technical representative will determine the optimum dosage based on your specific water analysis and operational conditions.

MATERIAL COMPATIBILITY

Compatible	Not Recommended
PVC, CPVC, HDPE, Polypropylene	Carbon steel without inhibitor
Teflon (PTFE), Viton, EPDM	Zinc, Galvanized steel, Aluminum

HANDLING & STORAGE

Store ASR OPTITREAT DT 388 in a cool, dry, and well-ventilated area away from incompatible materials such as strong alkalis and oxidizing agents. Avoid direct sunlight and high temperatures. Always use acid-resistant pumps and dosing equipment. Shelf life: 12 months under normal storage conditions.

SAFETY & PRECAUTIONS

ASR OPTITREAT DT 388 is a strongly acidic formulation. Avoid direct contact with skin and eyes. Use appropriate PPE including chemical-resistant gloves, goggles, and protective clothing. In case of contact, rinse immediately with plenty of water and seek medical advice if irritation persists. For full safety information, consult the product Safety Data Sheet (SDS).

ENVIRONMENTAL INFORMATION

The product is biodegradable in diluted form and free from halogenated compounds or heavy metals. Neutralize acidic residues before disposal according to local environmental regulations.

ASR CHEMICALS CORPORATION