

Product Bulletin

ASR DISPERSE 4221

Internal Boiler Treatment



PRODUCT DESCRIPTION AND APPLICATION

ASR DISPERSE 4221 is an alkaline liquid phosphate (Na:PO₄ ratio of 2.6:1) that can be used in coordinated phosphate-pH programs. ASR DISPERSE 4221 is applicable in boiler systems where the feedwater hardness is more than 60 ppm. The suggested operating pressure limit is up to 2,400 psig (165 barg).

PHYSICAL & CHEMICAL PROPERTIES

Form	Liquid
Appearance	Hazy light-Green
Odor	None
Density	8.0 – 8.7 lb/gal
Specific Gravity @25°C	1.00 – 1.02
pH (Neat)	13.1
Viscosity @25°C	1.3 cps
Freeze Point	2°C
Freeze-Thaw Recovery	Complete
Flash Point (PMCC)	>110°C
Solubility in Water	Complete

NOTE: These physical properties are typical values for this product. Please refer to the Material Safety Data Sheet (MSDS) for the most current data and complete information.

ACTIVE CONSTITUENTS

The active constituents are proprietary information for this product.

See the MSDS for information on regarding hazardous components.

REGULATORY APPROVALS

ASR DISPERSE 4221 is in compliance with FDA regulations pertaining to boiler water additives.

Please refer to the MSDS for the most recent approval information.

MATERIALS OF COMPATIBILITY

Compatible

Buna N
Fiberglass
Hypalon
Mild steel
Natural rubber
Polyethylene
Polypropylene
PVC
Stainless steel
Teflon
Viton

Not Compatible

Aluminum
Copper
Copper alloys
Neoprene
Nickel
Polyurethane

DOSAGE AND FEEDING

The dosage requirements of ASR DISPERSE 4221 are based on required phosphate and pH of the boiler water. For your specific application, the local ASR Representative will provide you with your dosage requirements.

Either underfeed or overfeed will cause the program to be out of control. Strict control is absolutely required! Being outside of proper control parameters can lead to rapid boiler system scaling and/or corrosion.

ENVIRONMENTAL AND TOXICITY DATA

Refer to the MSDS, SECTIONS 11 and 12, for all aquatic and mammalian information.

SAFETY AND HANDLING

Read the label and MSDS for complete safety and handling information before using this product.

Before using this product, please refer to SECTION 8 of the MSDS for proper personal protective equipment (PPE) and SECTION 3 for health effects.

STORAGE

ASR DISPERSE 4221 maximum storage temperature is 49°C.

The suggested in-plant storage limit is six months.

Refer to the MSDS, SECTION 7, for the most current data.

REMARKS

If you need assistance or more information on this product, please call your nearest ASR Representative.

For **Medical and Transportation Emergencies** involving ASR products, please see the Material Safety Data Sheet for the phone number.