

# ASR DISPERSE 8331

Multifunctional Boiler Water Treatment



## PRODUCT BULLETIN

### PRODUCT DESCRIPTION

ASR DISPERSE 8331 is a single drum treatment formulated for the protection against boiler corrosion and scale formation. ASR DISPERSE 8331 is an all-in-one powder product. This product has been formulated specifically for systems that have proper deaeration equipment (dissolved oxygen is less than 0.4ppm in boiler feedwater) and low alkalinity in boiler feedwater. Suggested maximum use pressure is 600 psi [42 Bar].

### Physical & Chemical Properties:

These properties are typical. *Refer to the Material Safety Data Sheet for the most current data.*

<b>Form:</b>	free flowing powder
<b>pH (1% W/W solution)</b>	10.3-11.3
<b>Solubility in Water</b>	complete
<b>Odor:</b>	sweet
<b>Color:</b>	off-white to beige

### ACTIVE INGREDIENTS

Alkaline Buffer Compound  
Complexing Agent  
Oxygen Scavenger  
Surface Control Polymer  
Corrosion Inhibitor  
Scale Dispersant

### GOVERNMENT APPROVALS

When use situations necessitate compliance with FDA regulations, ASR DISPERSE 8331 is acceptable under 21 CFR 173.3 10 Boiler Water Additives. ASR DISPERSE 8331 is also approved with the USDA and CFIA.

### MATERIALS OF COMPATIBILITY (Neat product)

#### Compatible Materials

Carbon Steel  
EPDM  
Fiberglass  
Natural Rubber  
Neoprene  
Nickel  
Plexiglass  
Polypropylene  
PVC  
304/316 Stainless Steel  
Teflon

#### Non-Compatible Materials

Aluminum  
Buna-N  
Copper  
Copper Alloys  
Hypalon  
Placite  
Polyurethane

## DOSAGE AND FEEDING

Feed **ASR DISPERSE 8331** by making a 5 to 10% solution of the product using demineralized water, condensate, or zeolite softened water between 50 and 100°F. Mix gently, only until dissolving is complete. To minimize reaction with the air, a floating cover is recommended. Make only enough solution to last for a 24-hour period. Fresh solution should be made up daily.

When a deaerator or feedwater heater is present, ASR DISPERSE 8331 should be fed continuously to the storage section. When no deaeration equipment is available, ASR DISPERSE 8331 must be fed continuously to the suction side of the feedwater pump. Any interruption in feed will result in scale formation and/or corrosion in the boiler and possible tube failure.

For systems with deaeration equipment, ASR DISPERSE 8331 must be fed at least 8 inches under the lowest waterline via a stainless steel injection quill (ASR Part No. P4610).

It is recommended that ASR DISPERSE 8331 be fed neat, however where dilution is required use cooled condensate (<90°F) [32°C] or the softest water available. A floating "doughnut" type cover is recommended to minimize reaction with air.

**N.B :** Do not add other chemicals to diluted product without first bench testing dilutions for stability.

## SAFETY AND HANDLING

Read the label and Material Safety Data Sheet for complete handling information before using this product.

## STORAGE

**ASR DISPERSE 8331** storage temperature should not exceed 120°F / 49°C. An in-plant storage limit of six months is recommended.

## ADDITIONAL INFORMATION

**ASR DISPERSE 8331** is one of a family of multi-functional boiler treatment products.

**NOTE:** *Variations in feedwater hardness, dissolved oxygen and alkalinity may require supplemental feed of other products.*

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