

## Key Performance Advantages

Better corrosion control can lead to:

- Longer equipment life
- Higher energy efficiency
- Lower operating risks and costs



Industrial Water

# AMP<sup>®</sup> FOR WATER TREATMENT

## High Performance pH Adjuster and Carbon Dioxide Absorber for Corrosion Control in Steam Generation Systems

AMP<sup>®</sup>, either as AMP-90<sup>®</sup> (10% water) or AMP-95<sup>®</sup> (5% water), is an effective and efficient neutralizing amine for use in preventing corrosion in low- to medium-pressure (<1,200 psi) steam generation systems. Benefits include:

- Efficient neutralizer
- Effective pH control
- Thermally stable
- Effective in both vapor and liquid phases (boilers and condensate lines)
- Easily regenerated in the deaerator with low make up
- Strong affinity to carbon dioxide (CO<sub>2</sub>)
- Compatible with other commonly used treatment chemicals
- Low secondary amines
- Favorable toxicity and flammability profile compared to other commonly used amines

The superior ability of AMP to absorb dissolved CO<sub>2</sub> in the feedwater and condensate lines, and then to rapidly dissociate from CO<sub>2</sub> in the deaerator without significant amine loss, makes it the amine of choice for corrosion control of low- to medium-pressure (<1,200 psi) steam generation systems.


## Typical Properties

The following are selected properties of AMP.  
They are not to be considered product specifications.

	AMP-90	AMP-95
<b>Active ingredients</b>	90% by wt.	95% by wt.
<b>Water</b>	10% by wt.	5% by wt.
<b>Appearance/description</b>	Water-white liquid	Water-white liquid
<b>Flash point, Tag closed cup</b>	86°C (186°F)	83°C (182°F)
<b>pH (1% aqueous)</b>	11.3	11.3
<b>Specific gravity @ 25°C</b>	0.949	0.942
<b>Pounds per gallon @ 25°C</b>	7.91 lb.	7.85 lb.
<b>Freezing/Crystallization point</b>	-11 C (12°F)	-2 C (28°F)
<b>Refractive index @ 20°C</b>	1.4568	1.4568

## Product Stewardship

ANGUS encourages its customers to review their applications of ANGUS products from the standpoint of human health and environmental quality. To help ensure that ANGUS products are not used in ways for which they are not intended, ANGUS personnel will assist customers in dealing with environmental and product safety considerations. For assistance, product Safety Data Sheets, or other information, please contact your ANGUS representative at the numbers provided in this document. When considering the use of any ANGUS product in a particular application, review the latest Safety Data Sheet to ensure that the intended use is within the scope of approved uses and can be accomplished safely. Before handling any of the products, obtain available product safety information including the Safety Data Sheet(s) and take the necessary steps to ensure safety of use.

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