



Cetamine®

Comprehensive and
Innovative Technology
for Boiler Water Treatment

Cetamine®

Filming Amines Technology for Boiler Water Treatment

Steam is a prime source of energy in many industries, used for power and heating purposes or as process steam. For this reason, boilers require "state of the art" water treatment to optimize their operational efficiency.

BKG Water Solutions offers an innovative technology, Cetamine®, based on filming amines, representing the latest standard in boiler water treatment.



Cetamine® treatment is based on the combination of several actions:

- » Formation of a monomolecular film, adsorbed on metal surfaces all over the system; this amine film constitutes a continuous barrier between water and metal, cutting out corrosion without affecting the heat transfer
- » Dispersion of scale-forming salts
- » pH-control by means of neutralizing amines

Cetamine® includes a wide range of specific programs for:

- » High and low pressure boilers
- » Boilers with turbines
- » Boilout
- » Wet conservation of boilers
- » Industrial and district heating networks
- » Closed heating and cooling systems
- » Different types of make-up water qualities

Cetamine® is designed to protect the entire installation:

- » Prevention of corrosion and deposits in feedtanks, boilers, steam pipes, turbines and condensate lines
- » Application of environmentally friendly and easy to use technologies
- » Reduction of energy and maintenance costs
- » Reduction of storage and handling

Cetamine® - providing solutions for your benefits

Very small increase of the salinity	<ul style="list-style-type: none"> » Reduction of blow-down and hence energy & water costs » Avoiding carry-over into the steam system 	Cost reduction
Producing of a mono-molecular protective layer in the whole system: feedtank, boiler and condensate lines	<ul style="list-style-type: none"> » Cutting-out of corrosion & corrosion deposits » Improvement of the protection of condensate lines » Decreasing of maintenance costs » Enhancing plant life & reliability 	
Slowly loosens and lifts existing scale	<ul style="list-style-type: none"> » Better thermal transfer & efficiency » Lower energy consumption 	Increase of efficiency & reliability
Enhancing of drop condensation in condensers and steam using machines	<ul style="list-style-type: none"> » Yield improvement 	
Cetamine® V2000, V2100 & F3100 are classified according to DIN EN 1717	<ul style="list-style-type: none"> » Suitable for district heating networks, heating up drinking water using heat exchanger. 	Health & Environmental Aspects
No hydrazine or hydrazine derivatives	<ul style="list-style-type: none"> » Recommended for Pharmaceutical and Food industry 	
FDA- and Kosher-compliant treatments		
Complying the requirement of an easy biodegradability (OECD 301 A-F)	<ul style="list-style-type: none"> » In accordance with environmental demands 	
Lower dosing compared to conventional treatments	<ul style="list-style-type: none"> » Reduction of effluent » Intended to minimize the use of chemicals 	Simple Dosing
Single liquid product	<ul style="list-style-type: none"> » Easy to use without any mixing or dilution, reducing operator involvement time up to 80 % » Less equipment, storage and handling 	
Dosing independent from oxygen concentration and feed tank temperature	<ul style="list-style-type: none"> » Simple product detection: photometric or by titration 	
Dosing proportional to the make-up water	<ul style="list-style-type: none"> » Reduction of volume and treatment cost 	

Comprehensive Service

- » Complete survey of your system and working conditions
- » Laboratory support for water and deposit analysis
- » Close follow-up from our engineers from the start-up of the treatment until stable operating conditions are obtained
- » Regular on-site analysis and treatment control

Our products stand for high quality:

As part of BK Giulini GmbH BKG Water Solutions is successfully certified by the DQS GmbH fulfilling the standards of DIN EN 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007.

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Responsible Care®