

# Boilermaker

Low solids, all-in-one boiler water corrosion and scale control additive for low pressure boilers



## Product Features

- Relatively low solids formulation. This allows for additional cycles of concentration compared to competitive treatment options and reduces the amount of blowdown required, resulting in a reduction in the consumption of water as well as treatment chemical.
- Effectively treats water from all local raw water sources (even water of high hardness). Providing effective control of scale and helps prevent corrosion
- Utilizes modern, efficient boiler treatment chemistry. Maintains a clean system, improves boiler efficiency and prevents failures
- Contains neutralizing amines to reduce corrosion potential in condensate
- Contains oxygen neutralizing components to reduce corrosion potential from dissolved gases ( $O_2$  and  $CO_2$ )

## Description

Oilfield Steam Boilers (Rig Boilers) are often fed with raw untreated water from the nearest water source, be it a drainage pond, slough, lake or other untreated supply. This water often contains a high concentration of scale forming minerals which can impair the operation of the boiler reducing its efficiency and shortening its lifespan. Rig Boilers are critical to ensure reliable and efficient supply of heat for the crew, drilling and safety equipment. As such, it is important that they be properly maintained. This begins with adequate feed water chemical treatment to control scale and corrosion and keep the boiler operating reliably and efficiently.

BOILERMAKER is a premium liquid treatment for control of scale and corrosion in rig boilers and other low-pressure boilers (0-300 psi). This product prevents the formation of scale on the internal surfaces of the boiler via dual mechanisms. BOILERMAKER forces scale forming minerals to remain in solution and unable to deposit as scale. If any minerals were to "sneak past" the primary mechanism of solubilization, BOILERMAKER retains the ability to precipitate the excess minerals and produce a non-adherent sludge. This sludge is easily removed by following a regular blowdown schedule. Utilizing BOILERMAKER to treat your boiler water will result in little to no sludge buildup within the system. This eliminates the potential of solids and sludge to collect at low points which can then result in the need of additional maintenance.

There truly is no treatment option for boiler water that is more complete, than BOILERMAKER.

## Available Packaging

20L Pails  
205L Drums  
1000 L Totes



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## Directions for Use

BOILERMAKER dosage rates are dependent on boiler feed water hardness, alkalinity and total dissolved solids (TDS). Prior to boiler commissioning, testing should be performed to determine these values using a specified test kit and a conductivity meter.

Water hardness is typically the most critical factor in determining BOILERMAKER dosage. At 100 ppm hardness (as  $CaCO_3$ ), the dosage rate is 1.0 L per  $m^3$  of feed water; at 500 ppm hardness the dosage rate is 2.0 L per  $m^3$  of feed water. Typically boiler water control limits are a pH of 10.5 to 11.5, TDS of 3000-3500 ppm, and alkalinity of 700-1000 ppm. If the boiler water exceeds these limits, then blow down is required. Regular blowdown is essential to maintain boiler water quality remove the solids and sludge collected in low points of the boiler and for proper maintenance and operation of the system.

Your Genesis sales Representative can show you how to properly test the boiler water and interpret the results to properly control the water chemistry in your boiler.

For use in steam trucks for the prevention of scale formation on the system coils BOILERMAKER should be dosed at between 1.0 - 5.0 L per 1000 L, depending on feed water quality.

For cautionary and first aid information, consult the Safety Data Sheet (SDS) or product label.

## Product Properties

Appearance	dark brown liquid
Odour	characteristic
Specific Gravity, at 20°C	1.18-1.32 kg/L
Freeze Point	0°C (32°F)
Shelf Life	1 year minimum

NOTICE: Genesis Chemicals makes no warranty or representation as to the suitability of the product as specified herein for any particular application. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user. All precautionary labels and notices should be read and understood by all supervisory personnel and employees before using. Consult Genesis Chemicals and OSHA regulations for additional safety and health information. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by Genesis Chemicals or others is not to be inferred from any statement contained herein.