

## Alkalinity Control

Written by PT. Chemical Mandiri Jaya

Thursday, 05 November 2009 11:39 - Last Updated Sunday, 11 April 2010 02:04

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### BUSOL ALKALINITY CONTROL

#### PRODUCT DESCRIPTION

Concentrated liquid alkaline product for corrosion and scale control in boilers.

#### DIRECTIONS FOR USE

This treatment is part of Busol's Co-ordinated Treatment Programme. Alkalinity Control provides the alkaline conditions for Hardness Control to function correctly.

Without the correct precipitation and subsequent blowdown of hardness salts, scale would form. This would result in restriction in water flow, ineffective heat transfer and local corrosion. The end effect would be an inefficient boiler and ultimately component failure.

Alkalinity Control also provides the alkaline conditions required for corrosion control, by neutralization of acidic gases.

#### DOSAGE

A proper level of treatment is maintained by testing for p-Alkalinity. The level is determined by the pressure and type of boiler. Refer to the dosage tables overleaf for correct dose rates. The normal method of raising the alkalinity level is by adding the required quantity of Alkalinity Control after testing for p-Alkalinity. 225 ml/ton will raise the p-Alkalinity by 100 ppm.

#### DOSING METHOD

For optimum results dose Alkalinity Control direct to the boiler via the bypass pot-feeder installed in the boiler feed line.

#### SAMPLING AND TESTING

A Representative sample of boiler water should be drawn for analysis daily. The sample should always be taken from the same point after blowdown, cooled and tested immediately.

Follow the spectrapak Test Kit instructions and log the results on the log sheets provided by Busol. These log sheets should be sent to Busol's Rapid Response centre for review and comments.

It is important that regular testing is carried out to ensure levels of treatment are correct.

USING THE TABLE : Select the section corresponding to the pressure of the boiler to be treated and read across the table to obtain the level of treatment required.

#### PRODUCT PROPERTIES

Appearance

Density, g/cm<sup>3</sup> at 15oC

pH (1 vol %)

*Compatibility*

Metal

Rubber

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## Packaging

Size (kg)

Container : colourless liquid

: 1.3

: 13

: Corrosive to aluminium, magnesium, zinc, and tin

: No known effect

: 25

: Plastic

## Alkalinity Control – Dosage – ml/ton

Pressure	p-Alkalinity test result ppm CaCO	3
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Range	0-60	60-90	90-100
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p-Alkalinity /tonne	millimetres		
0-30 bar			
0-441 Psi			
225	110	70	Satisfactory
No Dose	Satisfactory		
No Dose	Satisfactory		
No Dose	Blow		
Down	100-150	280	
31-40 bar			
456-588 Psi			
190	80	60	Satisfactory

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No Dose	Satisfactory		
No Dose	Blow		
Down	Blow		
Down	100-130	260	
41-60 bar			
603-882 Psi			
170	80	60	Satisfactory
No Dose	Satisfactory		
No Dose	Blow		
Down	Blow		
Down	100-120	235	