

HYDRO 473L

Boiler Water and scale preventative

Description

Hydro 473L is a liquid on-line treatment containing a blend of chelating agent and dispersant. **Hydro 473L** is formulated to provide complete protection against corrosion and prevent scale build up. **Hydro 473L** is recommended for use in low and medium pressure boilers where pure steam is required.

Properties

Colour	Creamy white liquid
Odour	Nil
Sp. gravity	1.00 – 1.10 @ 20°C
pH	7.5 – 8.5
Solubility	Totally soluble in water

Method Application

Solutions of less than 10% **Hydro 473L** in water should be made up in a chemical dosing tank and added either to the boiler or to the feed tank by means of a proportion pump. Once the boiler is cleaned from the existing scale, we will recommend the regular chemicals for controlling the scale and corrosion.

Dosage Rate

Actual quantities of **Hydro 473L** required depend upon:

1. Total steam production
 2. Temperature of feed water
- Rate of blowdown

Example:

For every 1000 litres of feedwater used:

- (1) at a temperature of 82 C (180 F) 60 gr of **Hydro 473L** would be required.
- (2) at a temperature of 66 C (150 F) 80 gr of **Hydro 473L** would be required.

Control

In order to maintain correct levels of **Hydro 473L** regular test should be carried out on the boiler water. The level of sulphite should be maintained at 20 – 70 mg/l at all times. The necessary test kit, relevant technical advice, and service are available from **Hydro-Chem**.

Caution

In case of accidental contact with skin wash off immediately with water. In case of accidental contact with eyes flush thoroughly with water for 15 minutes and seek medical attention.

Conversion units

1 hp (boiler)	= 9,8 kilowatt
1 hp (boiler)	= evaporation of 34,5 lbs of water/hour
1 kW (boiler)	= evaporation of 1,6 kg of water /hour
1 gallon	= 4,54 litres
1 lb	= 454 gram
1 kg	= 2,2 lbs
1 ppm	= 1 mg/l

Regulatory Status

Hydro 473L complies with PDA regulations (21 CFR 173.310) for boiler water additives used in the preparation of steam that will contact food

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