



Your Partner in Corrosion Control

VAPPRO 5583 BOILER CLEANING AND BOILER-WATER TREATMENT CHEMICAL

Vapro 5583 is formulated for the cleaning of boiler and treating of boiler-water.

NATO STOCK NUMBER: 6850-32-077-4769



Water Treatment Chemicals

DESCRIPTION

The main constituents of boiler-scales are the oxides and salts of Fe, Cu, Ca, Mg, Co and Ni. These compounds originate from :

- Corrosion of metallic parts of the boiler
- Condensate
- Residual hardness of the boiler-feed water

Typical composition of a boiler-scale :

Fe ₂ O ₃ + Fe ₃ O ₄	50%
Ca ₃ (PO ₄) ₂	15%
3MgO.2SiO ₂	12%
Cu ₂ O	10%
Balance (organics, metallic Fe, Cu etc)	13%

Cleaning processes for scaled boilers are based on:

- Treatment with sequestering agent, Ethylenediaminetetra Acetic Acid

Ethylenediaminetetra Acetic Acid forms stable, water-soluble complexes with all metal ions normally present in boiler-scales (Fe, Cu, Ca, Mg, Co and Ni). Since dissolution of Fe₃O₄ is rate determining in the cleaning process, Vapro 5583 is the preferred sequestering agent, since it effectively dissolves iron oxides.

A typical dosage range in a boiler descaler is :

Vapro 5583 : 5 – 10 % (m/m)

Note : A corrosion inhibitor is required in cleaners for copper and steel parts.

Cleaning of scaled boilers with Vapro 5583 offers several advantages :

- no handling of aggressive acids (as HCL, HF)
- reduced risk of corrosion of the base-material required no chloride-induced stress-corrosion cracking of stainless steel parts.
- high iron-dissolving capacity
- short cleaning time

FEATURES

- Multi-metal protection
- Excellent scale inhibition
- Cleans and treats boiler system
- Excellent thermal chemical stability



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SOLUBILIZATION

Vapro 5583 controls residual hardness ions present in the boiler-feed water.

Due to the excellent thermal and chemical stability of the formed Vapro 5583 chelates no precipitation will occur.

For economic reasons, Vapro 5583 treatment is restricted to:

- low residual hardness feed water (5ppm)
- low to medium pressures (<1000 psi)
- oxygen – free conditions

The optimum Vapro 5583 dosage for every mg/kg residual hardness is:

Vapro 5583 : 20 ppm/kg

Vapro 5583 and phosphate are simultaneously dosed, such that most of the hardness ions are precipitated. The residual hardness is controlled by Vapro 5583.

Advantages of the combined treatment are:

- clean heating surfaces and increased boiler efficiency
- a less critical operation than the separate treatments
- reduced risk of corrosion

SPECIFICATIONS

Appearance:	Transparent
Colour:	Pale Yellow
Viscosity:	Low, Free Flowing
pH:	13 ± 0.5
Specific Gravity:	1.3 ± 0.5
Flash Point:	Non-flammable

AVAILABLE PACKAGING

25 Liters / 200 Liters

CONTACT US

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