

Boiler Water Treatment Scale and Deposit Control

Description and Use

HYDREX 1255 is a synergistic blend of FDA approved inorganic and organic scale inhibitors, organic polymers, deposit control agents and specific antifoam.

HYDREX 1255 is typically used in the type of treatment programme, which is known as the "THRESHOLD CONCEPT"

Advantages

The "THRESHOLD CONCEPT" can be summarised by the following:

- ✦ Removal of hardness slips
- ✦ Sludge conditioning by dispersion
- ✦ Distortion of molecular structures of scale and deposits
- ✦ Threshold inhibition
- ✦ Removal of existing scale and deposits over a period of time
- ✦ Transportation of iron
- ✦ Cost effectiveness

Localised overheating of metal surfaces is thus prevented, eliminating subsequent metal fatigue. Operating with clean metal surfaces, heat transfer is conducted properly and maximum efficiency of the boiler is obtained. Less energy is used to raise the same amount of steam with subsequent fuel and water savings.

HYDREX 1255 treatment programme is the most advanced and cost effective in recent years and keeps trend with world wide technological research.

Application Information

The required feed rate depends on the feedwater calcium hardness and the allowable feedwater cycles of concentration. The product should be fed continuously to the boiler drum or the suction side of the boiler feedwater pump by means of a chemicals metering pump.

Control parameter is inorganic phosphate (PO₄) and should be controlled between 20 - 40 mg/litre in the boiler water.

Specifications

- ✦ Appearance : Colorless to Yellow Liquid
- ✦ Specific Gravity : 1.13 - 1.17

- ✦ pH : 6.0 – 8.0

Materials Compatibility

Crosslinked polyethylene (HDPE), PP, PVDF, stainless steel and lined mild steel are the preferred material of construction for bulk tanks.

Unlined steel, galvanized steel and copper are NOT recommended in any part of the chemical feed system. Stainless steel, HDPE, PVDF or PVC are generally the best choices for the pump heads and feed lines.

Handling – Storage - Packing

HYDREX 1255 is available in 20 kgs carboy, 200 kgs drum and 1000 kgs container. Details are available on request.

Shelf life of Hydrex 1255 is 2 years under normal handling and storage conditions.

Safety Information

Ensure that the operator is fully informed and familiar with the use of the product.

The product is non-hazardous and no special handling precautions are necessary. Avoid eye contact and ingestion.

Please refer to the Material Safety Data Sheet for more detailed information and use Personal Protective Equipment as specified in the MSDS document.

Publication

This product information is released on 04th Aug. 2017, to replace all previous versions of Hydrex 1255 product information document.

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