

OptiSpense* HP5455

internal boiler treatment

- Minimises risk for corrosion
- Improves boiler reliability
- Suitable for FDA applications

description and use

OptiSpense HP5455 is an alkaline solution of phosphate. The product's buffering capacity is determined by its specific sodium to phosphate ratio.

OptiSpense HP5455 is used in boilers that are fed with high quality water such as demineralised, mixed bed, double pass RO, EDI and condensate.

A separate feed of an organic oxygen scavenger and neutralising amine may be required to give a complete boiler water treatment programme.

All the ingredients in OptiSpense HP5455 are listed in FDA 21CFR173.310 - boiler water additives for use in the preparation of steam that will contact with food.

typical applications

Corrosion control in boilers utilising high purity feedwater is normally achieved by operating a coordinated phosphate/pH programme. OptiSpense HP5455 is a product with specific sodium to phosphate ratio for such a treatment programme. The product can also be supplemented with a synthetic polymer to control metal oxide deposition in the boiler water.

treatment and feeding requirements

Feed point - OptiSpense HP5455 should be fed to the boiler drum. Alternatively it may be fed to the boiler feedwater line after the attemperation spray water take off point.

Water Technologies & Solutions fact sheet

Check with your local SUEZ representative to determine the specific conditions in your system in order to define the optimum dosing point.

Feed rate - Sufficient OptiSpense HP5455 should be fed to maintain the recommended boiler water phosphate residual. The product is formulated for specific operating conditions. The feed rate depends upon operating pressure, heat transfer rate and feedwater quality.

Dilution - OptiSpense HP5455 can be fed neat or diluted to any convenient strength using demineralised water or condensate. When the product is fed direct to the boiler drum it must be diluted. Agitation should be provided.

Equipment - All chemical feeding equipment and feedlines should be of 304 or 316 stainless steel materials. To minimise packing and plunger problems, a diaphragm pump is recommended.

general properties

Physical properties of OptiSpense HP5455 are shown on the Safety Data Sheet, a copy of which is available on request.

packaging information

OptiSpense HP5455 is a liquid blend and is available in a wide variety of customised containers and delivery methods. For more information please contact your SUEZ representative.

safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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