



ISO9001:2008  
CERTIFIED



# Diya Chemicals



Product Name: **Boiler Water Treatment Chemical.**

## OXYGEN SCAVENGER

**DYMAX-3000** is a catalyzed oxygen scavenger in powder form. It is a blend of inorganic salt (SO<sub>2</sub> contain) and a catalyst. It is recommended for the rapid and complete removal of dissolved oxygen from boiler feed water. DYMAX-3000 reacts with oxygen to produce inorganic salt, which contributes to the dissolved solids in boiler, feed water.

### BENEFITS

#### RAPID REACTION

The catalyst **DYMAX-3000** speeds up the removal of dissolved oxygen. Oxygen can be removed completely even from cold water due to catalytic action. Normal reaction time is as low as 15 to 20 seconds as against 10 to 30 minutes for uncatalysed sulphite.

#### EASY TO HANDLE

**DYMAX-3000** is a liquid. It is soluble in water even at lower feed water temperature. It is non-toxic and non-corrosive and, therefore, can be handled easily.

#### pH CONTROL

**DYMAX-3000** is formulated to get proper pH control for optimum availability of catalyst for rapid oxygen removal.



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## **COST EFFECTIVE**

The catalytic action reduces the excessive requirement of sulphite in feed water for the rapid removal of oxygen. Thus, the quantity required is lower, making **DYMAX-3000** treatment cost effective.

## **APPLICATION AND DOSAGE**

**DYMAX-3000** solution should be dosed continuously. Dissolve the required quantity of DYMAX-3000 gently in boiler feed water in a separate tank. Dose this solution continuously in the boiler feed water line after the deaerator.

Above 8 ppm of inorganic salt is required for the removal of 1 ppm of dissolved oxygen from boiler feed water. About 10% to 20% of excess sulphite should be dosed to provide oxygen consuming reserve.

The table below gives the approximate dosage.

Feed water temperature	DYMAX-3000 dosage in gms per ton of steam generation
More than 80 <sup>o</sup> C	15
60 to 80 <sup>o</sup> C	30
40 to 60 <sup>o</sup> C	60
Less than 40 <sup>o</sup> C	100

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DIYA CHEMICAL will provide technical assistance in arriving at optimum dosages for your operating conditions and requirements. Also in selecting a suitable dosing system for your plant.

## **HANDLING, STORAGE AND PRECAUTIONS :**

- **DYMAX-3000** is mildly alkaline in nature.
- Normal precautions should be taken while handling liquid.
- In case of contact, wash with water.
- Do not swallow.
- DYMAX-3000 should be stored in a dry condition.
- Close the container tightly to avoid contact with sunlight.

## **PACKING**

DYMAX-3000 is available in 25 Kg. / 35 Kg. / 50Kg. HDPE Carboy.

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## **BOILER FEED WATER TREATMENT CHEMICAL**

**DYMAX-3222** is a solid blend of an anti-scalant and an oxygen scavenger in powder form, designed for the treatment of boiler feedwater used in coil type boilers. It contains an anti-scalant to reduce deposition of calcium and iron compounds in coils.



### **BENEFITS :**

#### **RAPID OXYGEN REMOVAL :**

The catalysed oxygen scavenger in the product removes oxygen instantly. The catalytic action also helps in complete oxygen removal at lower scavenger concentration. Oxygen related corrosion is controlled due to complete oxygen removal.

#### **SCALE PREVENTION :**

DYMAX-3222 contains a powerful anti-scalant which acts on the scale forming calcium and iron compounds. It helps in preventing scale formation during calcium slippage through the softener. Thus, the coil is protected against scaling and overheating.

#### **CORROSION INHIBITION :**

The product contains a corrosion inhibitor which protects the coil against acidic corrosion. This reduces coil failure and unscheduled shutdowns.

#### **EASY TO USE :**

DYMAX-3222 dissolves quickly in water. It is non-toxic and easy to handle.

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## APPLICATION AND DOSAGE :

DYMAX-3222 dosage depends on feed water temperature and the boiler system.

The following table gives a rough idea of the dosages.

Feed water temperature	DYMAX-3222 dosage in gms per ton of steam generation
More than 80° C	15
60 to 80°C	20
40 to 60°C	40
Less than 40°C	80-100

DIYA CHEMICAL will provide technical assistance in arriving at optimum dosages for your operating conditions and requirements. Also in selecting a suitable dosing system for your plant.

## HANDLING, STORAGE AND PRECAUTIONS :

- DYMAX-3222 is mildly alkaline in nature,
- Normal precautions should be taken while handling liquid.
- In case of contact, wash with water.
- Do not swallow.
- DYMAX-3222 should be stored in a dry condition.
- Close the container tightly to avoid contact with sunlight.

## PACKING

DYMAX-3222 is available in 25 Kg. / 35 Kg. / 50Kg. HDPE Carboy.