

U.S.STERILES

Boiler Water Treatment Chemicals

Opp. Royal Medical,
Waliv Naka, Waliv, Vasai (East),
Thane – 401 208 (Maharashtra)
Tel :- (0250) 2454203 / 2456032
Fax:- (0250) 2453781

===== Data Sheet =====

Boiler Details

Name of the Company :

Address :

Telephone No. :

1 Boiler Make & Year :

Water tube/Fire tube :

2 Steam Generating Capacity :

Pressure :

3 Fuel Consumption /Day :

4 Steam Use :

Generation Hrs/Day :

5 Ratio of Steam/Fuel :

6 Water Side Data :

Type of pretreatment :

Feed water temperature :

Condensate recyle rate :

Water makeup rate :

Blow down rate :

Chemical treatment :

Water Analysis :

pH :

Hardness :

T. D. S. :

Conductivity :

Choride :

DO :

7 Scale removal frequency :

Descaling frequency/method :

8 Other Observation :

Any soot observation ? :

Any corrosion observation :

Tube replaced so far :

Boiler passing date :

Storage tank Capacity :

Oil tank :

Oil service tank :

Water Service Tank :

Condensate :

9 Remarks :

GRAMICID 41

FOR LOW AND MEDIUM PRESSURE BOILER SCALE INHIBITOR CUM SLUDGE CONDITIONER

DESCRIPTION

GRAMICID 41 is easy and single use liquid for internal treatment of boiler water. It is used for all low and medium pressure boilers. In addition to its property of scale inhibition, it also acts as a sludge conditioner. Its scale inhibitor property prevents depositions of hardness salts of water such as calcium, magnesium etc.. Its sludge conditioning property loosen the sludge and keep it in fluidized state so it becomes easy to remove the sludge during normal blowdown. Thus it keeps the boiler surface clean and the heat transfer efficiency of the boiler coil is at the maximum.

SPECIFICATION

Appearance	:	Reddish colour
PH (as is)	:	4.5
Consistency	:	Liquid
Solubility	:	infinite in water.

APPLICATION

GRAMICID 41 is complete treatment for boiler water. It is mixed with feed water hence requirement of any mixing vessel can be avoided.

DOSAGES

Dosage normally depends on the quality of feed water and operating parameters of the boiler. Our personnel will recommend the correct dosage of **GRAMICID 41**. The dosage point is makeup / feed water line or tank.

STORAGE AND HANDLING

GRAMICID 41 is to be stored at covered and shaded area. While normal precautions like use of hand gloves, goggles etc. is to be taken. Do not take internally. In case of contact with eyes flush with plenty of fresh water and get medical attention, if necessary.

PACKING

GRAMICID 41 is available in 30 liters and 50 liters HDPE containers.

In our constant efforts to improve the product, information given here is subject to change or alter without prior notice. We cannot accept any liability except for composition of the product as per the specification.

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GRAMICID 71

FOR HIGH PRESSURE BOILER SCALE INHIBITOR CUM SLUDGE CONDITIONER

DESCRIPTION

GRAMICID 71 is easy and single use liquid for internal treatment of boiler water. It is used for all high pressure boilers. In addition to its property of scale inhibition, it also act as a sludge conditioner. Its scale inhibitor property prevents depositions of hardness salts of water such as calcium, magnesium etc.. Its sludge conditioning property loosen the sludge and keep it in fluidized state so it becomes easy to remove the sludge during normal blow down. Thus it keeps the boiler surface clean and the heat transfer efficiency of the boiler coil is at the maximum.

SPECIFICATION

Appearance	:	Reddish colour
PH (as is)	:	4.2
Consistency	:	Liquid
Solubility	:	infinite in water.

APPLICATION

GRAMICID 71 is complete treatment for boiler water. It is mixed with feed water hence requirement of any mixing vessel can be avoided.

DOSAGES

Dosage normally depends on the quality of feed water and operating parameters of the boiler. Our personnel will recommend the correct dosage of **GRAMICID 71**. The dosage point is makeup / feed water line or tank.

STORAGE AND HANDLING

GRAMICID 71 is to be stored at covered and shaded area. While normal precautions like use of hand gloves, goggles etc. is to be taken. Do not take internally. In case of contact with eyes flush with plenty of fresh water and get medical attention, if necessary.

PACKING

GRAMICID 71 is available in 30 liters and 50 liters HDPE containers.

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GRAMICID 42

FOR LOW AND MEDIUM PRESSURE BOILER OXYGEN SCAVENGER WITH CATALYST

DESCRIPTION

GRAMICID 42 is transition metal catalyzed chemical used for removal of oxygen to prevent corrosion. It is non-volatile. It is used in low and medium pressure boiler. The presence of Catalyst provide site for very fast oxygen binding. It also helps in dispersing and lifting the sludge and other corroded material for better heat transfer.

SPECIFICATION

Appearance	:	Reddish liquid
PH (1 % soln)	:	4.1
Solubility	:	infinite in water.

APPLICATION

GRAMICID 42 is mixed separately in water to a very dilute solution of about 5 % and dosed in feed water tank after preheating treatment of feed water is done. It completely removes the dissolved oxygen in feed water, which is the main source of the corrosion of boiler tubes.

DOSAGE

Dosage normally depends on the DO content and temperature of feed water. Generally slight excess is taken to ensure complete removal of oxygen from feed water.

STORAGE AND HANDLING

GRAMICID 42 is to be stored at covered and shaded area. While normal precautions like use of hand gloves, goggles etc. is to be taken. Do not take internally. In case of contact with eyes flush with plenty of fresh water and get medical attention, if necessary.

PACKING

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GRAMICID 72

FOR HIGH PRESSURE BOILER OXYGEN SCAVENGER WITH CATALYST

DESCRIPTION

GRAMICID 72 is oxygen scavenger. It is non-volatile. It is used in high-pressure boiler. It is rapid oxygen binder.

SPECIFICATION

Appearance	:	Reddish colour liquid
PH (1 % soln)	:	4.0 + -1.0
Solubility	:	infinite in water.

APPLICATION

GRAMICID 72 dosed in feed water tank after preheating treatment of feed water is done. It is used whenever make up water is added to the system. It completely remove the dissolved oxygen in feed water, which is main source of corrosion of boiler tubes.

DOSAGE

Dosage normally depends on the DO content and temperature of feed water. Generally slight excess is taken to ensure complete removal of oxygen from feed water.

STORAGE AND HANDLING

GRAMICID 72 is to be stored at covered and shaded area. While normal precautions like use of hand gloves, goggles etc. is to be taken. Do not take internally. In case of contact with eyes flush with plenty of fresh water and get medical attention, if necessary.

PACKING

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GRAMICID-43

FOR LOW AND MEDIUM PRESSURE BOILER PH BOOSTER

DESCRIPTION

It is specially formulated product for maintaining the alkalinity of the Boiler Water.

SPECIFICATION

Appearance : Clear colourless
PH (as is) : 10.5
Consistency : Liquid
Solubility : infinite in Water

APPLICATION

It works as a PH Booster to reduce corrosion.

DOSAGE

Normally depend on the quality of feed water, to become water alkaline.

STORAGE & HANDLING

GRAMICID 43 is to be stored at covered and shaded area. While normal precautions like use of hand gloves, goggles etc. is to be taken. Do not take internally. In case of contact with eyes flush with plenty of fresh water and get medical attention, if necessary.

PACKING

GRAMICID 43 is available in 30 liters and 50 liters HDPE containers.

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GRAMICID-73

FOR HIGH PRESSURE BOILER PH BOOSTER

DESCRIPTION

It is specially formulated product for building the alkalinity of the Boiler Water to reduce corrosion tendencies.(PH Booster).

SPECIFICATION

Appearance : Clear colourless
PH (as is) : 11
Consistency : Liquid
Solubility : Completely soluble

APPLICATION

To maintain alkaline PH.

DOSAGE

Normally depend on the quality of feed water, to become water alkaline.
The dosage point is makeup water / feed water.

STORAGE & HANDLING

GRAMICID 73 is to be stored at covered and shaded area. While normal precautions like use of hand gloves, goggles etc. is to be taken. Do not take internally. In case of contact with eyes flush with plenty of fresh water and get medical attention, if necessary.

PACKING

GRAMICID 73 is available in 30 liters and 50 liters HDPE containers.

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