

# Kotamina Plus

Multifunction Corrective  
Formulation for  
Water-Steam Systems  
in Power Units

**Kotamina Plus** is a modern anticorrosive and antifouling formulation which has been based on thermally stable alkylamines. It has been developed within the international project EUREKA E!2426 BOILTREAT.



The use of amine in that formulation reduces the corrosive attack of water and steam.

Amine covers the metal surface with a non-wettable film which prevents any direct contact of the construction material and the corrosive media. The research has revealed the rate of corrosion to be reduced by the use of Kotamina by 92-98% at 400°C, i.e. down to as little as 0.63  $\mu\text{m}/\text{year}$ .

Kotamina perfectly protects the power engineering equipment against the operating deposits, and it reduces fouling on boiler heat exchange surfaces two times or even three times in some cases.

High molecular weight amines improve considerably the heat exchange process in the boiler itself and in the condenser of the turbine as well.

Hence, the total efficiency of the power unit is improved. The temperature of the boiler tube walls is lower at the same time, which eliminates tube overheating and expands the service life.

Polish  
Product of  
the Future



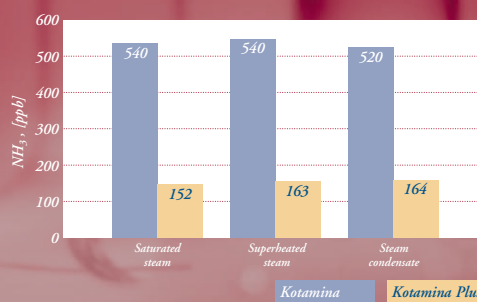
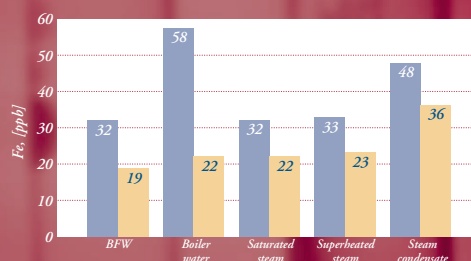
Polski  
Produkt  
Przyszłości

Kotamina Plus was  
awarded in the 7-th  
contest „Polish Product  
of the Future”.



INSTITUTE OF HEAVY  
ORGANIC SYNTHESIS  
„BLACHOWNIA”

The effects of Kotamina Plus on the concentrations of iron and ammonia in the boiler feed water and boiler water, in saturated steam and superheated steam, as well as in steam condensate, were tested in power plants in Białystok and Połaniec (Poland).



The use of Kotamina Plus resulted in:

- decrease of total iron concentration in individual streams, which confirms the anticorrosive performance of the formulation,
- decrease of ammonia concentration in individual streams.

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