

Aktiphos® 646

Corrosion inhibitor with hardness stabilization and emulsification functions for water treatment of cooling systems.

APPLICATION

Aktiphos® 646 is used in industrial water cooling systems, oil refining, metallurgy, power plants for the treatment of corrosion water with a tendency to scale.

SPECIFICATION

Active agents:	mix of phosphonates with dispersants and corrosion inhibitors
Form:	liquid
Ability to dissolve:	completely water-dissolveable
Phosphorus compounds (P):	2% (= 6,5% PO ₄ = 5% P ₂ O ₅)
Zinc content (Zn):	about 10%
pH value(1%):	about 2,7
Density (20°C):	about 1,36 g/cm ³
Freezing point:	about - 20°C
Viscosity (20°C):	about 13 mPas
LD50:	about 4,22 g/kg

Aktiphos® 646 is non-toxic; coming from the system water has no negative effect on plants and animals.

ACTION

Aktiphos® 646 is a chemically and thermally stable product, characterized by effective hardness stabilization, corrosion inhibition and emulsification of insoluble particles. Aktiphos® 646 stabilizes the hardness of CaCO₃.

Corrosion inhibition also works if the water flow in the system is low. Aktiphos® 646 is effective at temperatures up to 80°C and pH values up to 8.5.

DOSAGE

Aktiphos® 646 can be dosed concentrated and diluted, using a dosing pump. The dosing pump should be made of acid-resistant material. Generally, in the recirculating water of cooling system Aktiphos® 646 concentration should be kept at 10-50 ppm (mg/l).

ANALYTICAL CONTROL

The quantity of Aktiphos® 646 in cooling water is determined by P₂O₅ colorimetry method : 1 ppm (mg/l) P₂O₅= 20 ppm (mg/l) Aktiphos® 646.

PACKAGING

Plastic bins (20 kg), containers.

PROCESS CONTROL

Technical control of the process is required to assess the effectiveness of the use of this reagent. For this purpose, the technical consulting department of ŠOMIS has been created to provide consulting and control analysis. Technical consultations and maintenance are carried out under a separate agreement.

CERTIFICATION

Our quality management system (ISO 9001:2008) and environmental management system (ISO 14001:2005) are DQS certified.

NOTE

The information provided is based on practical experience. We guarantee high quality of the product. The described product has a specific range of activities. Water composition, technical conditions and specifics of production may not correspond to this product's range of action. In this case, we can offer you solutions based on other products.