

Aktiphos® 651

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

APPLICATION

Aktiphos® 651 used in open circulation systems. Aktiphos® 651 is recommended for use in the oil and chemical industry. The product is suitable for water with pH in the range from 6.0 to 9.0.

SPECIFICATION

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|-----------------------|--|
| Active agents: | organic and inorganic corrosion inhibitors, phosphonocarboxylic acid, polycarboxylates |
| Form: | liquid |
| Ability to dissolve: | completely water-dissolveable |
| Phosphorus compounds: | about 6,5% (=20% PO ₄ =15% P ₂ O ₅) |
| Zinc content (Zn): | about 3% |
| pH value: | <1 |
| Density (20 °C): | about 1,3 g/cm ³ |
| Freezing point: | about -30°C |
| Viscosity (20°C): | <20 mPas |

ACTION

Aktiphos® 651 has excellent corrosion inhibition, hardness stabilization and dispersion properties. Aktiphos® 651 is chemically and thermally stable. In combination with phosphorus and zinc compounds and thanks to the copper inhibitor, a synergistic effect is achieved and metal surfaces are protected against corrosion.

DOSING

The required dose of Aktiphos® 651 depends on the amount of solids, type of cooling system, amount of salts, hardness, pH, temperature. Typically, a product concentration of 25 - 75 mg/l should be maintained. Both concentrated and diluted product can be dosed, using a dosing pump.

ANALYTICAL CONTROL

The quantity of Aktiphos® 651 in water is set according to the general colorimetric method of phosphorus analysis:

1 mg/l P = 15,4 mg/l Aktiphos® 651

1 mg/l PO₄ = 5,0 mg/l Aktiphos® 651

1 mg/l P₂O₅ = 6,7 mg/l Aktiphos® 651

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 SOMIS has been created to provide consulting and control analysis. Technical consultations and maintenance are carried out under a separate agreement.

SERTIFICATION

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