

BiyoGeo CS - Geothermal Scale Inhibitor

Calcite and silica scale inhibitor for geothermal fluids

PRODUCT DESCRIPTION

BiyoGeo CS is a polymer-based scale inhibitor developed to prevent calcite and silica scaling in geothermal production wells, surface equipment, heat exchangers and reinjection lines. It was developed and commercialised for Turkish geothermal fluids in our TÜBİTAK 1507-supported R&D project. A polymer-based scale inhibitor that blocks the growth of crystal nuclei and their adhesion to surfaces, while its dispersing action delays the build-up of particles already formed. It is designed to remain stable at high temperature, hardness and alkalinity, and does not cause corrosion.

BENEFITS

- Prevents calcite scale in production wells and protects flow
- Delays build-up of silica and mixed scales
- Stable at high temperature, hardness and alkalinity
- Can be used in a programme with a corrosion inhibitor
- Reduces the need for reaming and acid cleaning

APPLICATIONS

- Production wells of flash and binary plants (downhole dosing via capillary tubing)
- Wellhead, separator and surface lines
- Binary (ORC) heat exchangers
- Reinjection lines and wells

DOSING AND APPLICATION

Dose and injection point are set from fluid analysis, the temperature-pressure profile and flow rate, and optimised in a field trial. Continuous dosing is recommended.

PACKAGING AND SUPPLY

Drums and IBCs. TDS and SDS on request. A regular delivery schedule is set up for continuous dosing. Made by Biyopol Kimya, İTOB OIZ, Menderes / İzmir, Türkiye.

MANUFACTURER

Biyopol Kimya, manufacturer of industrial and specialty chemicals in İzmir, Türkiye since 1992. TÜBİTAK-supported R&D projects.