SOLAGUM™ SH 210

SOLAGUM™ SH 210 is a polymer based on HSD (Hydro Swelling Droplets); it inverts and swell when added to water

SOLAGUM™ SH 210 acts as a thickener & emulsifier and is produced from water-soluble monomers polymerized in a continuous oil phase.

Product performance

Inverse emulsions do not need to be neutralized, they are “ready to use” and they will thicken immediately after addition to the medium. SOLAGUM™ SH 210 can be used at room temperature but requires high shear mixing to produce stable emulsions. SOLAGUM™ SH 210 is just as effective in strongly acidic, alkaline or oxidizing conditions. SOLAGUM™ SH210 can be used in synergistic combinations with other thickeners (xanthan gum, guar gums, vinyl polymers, CMC, ...)

SOLAGUM™ SH 210 can emulsify and stabilize oily components (up to 50% oily phase) without addition of an emulsifier. The gel-emulsions are stable and perfectly homogeneous in appearance.

Product properties compared to other SOLAGUM™

Viscosity of solution according to concentration (Brookfield LVT 6 rpm, 20°C)

- Ready to Use polymer in fluid form
- Compatible at any pH (2-13)
- No heating neutralizing & maturing phases required
- Excellent Emulsifier even with silicone oil effective stabilizer of mineral charges
Preparation of aqueous alkaline or acidic gels

Add SOLAGUM™ SH210 to the water containing vessel under agitation to prepare a pre-gel. Keep stirring when adding the alkaline or the acidic solution. Maximum viscosity is achieved after one day in alkaline solution and 3 to 4 days in acidic media.

Compatibility with surfactants

SOLAGUM™ SH210 is compatible with non-ionic, anionic and amphoteric surfactants. It is not compatible with CATIONIC surfactants!

Effective & Easy-to-use: no neutralization, no heating,

For improved stability of emulsions, prepare pre-gel in water under high-shear. Solvents and oils are added in a second step to complete the formula.

Compatibility with electrolytes

Electrolytes decrease the thickening effect of SOLAGUM™ SH 210. Therefore, they should be added at the end of the process to adjust viscosity as desired. This operation may require higher amounts of SOLAGUM™ SH 210. In order to overcome this limitation, SOLAGUM SH 210 can be associated with other thickeners such as SOLAGUM AX, Vinyl polymers, CMC’s, … . SOLAGUM™ AX and SIMULGEL™ EG offer even better resistance to electrolytes.

Solvent thickening

SOLAGUM™ SH 210 can be used to develop anhydrous gels with oxygenated polar solvents: alcohols, esters, ethers, glycolethers, ...

Additional information

Storage conditions: in a dry place at room temperature. Storage at low temperature can induce phase separation.

Shelf life: use within 24 months from date of manufacture is recommended. Drums should be closed tightly during storage.

Others: Product should be re-homogenized prior to use!
For industrial use only.

Nota:

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