

# SOLAGUM™ AX

Co-granulation of natural thickening polymers  
to achieve low to medium viscosity in water-based and hybrid systems

## SOLAGUM™ AX

SOLAGUM™ AX is a co-granulated blend of 2 natural polymers: acacia gum and xanthan gum.

SOLAGUM™ AX is recommended in aqueous or hybrid formulations for which low to medium viscosity (up to 10,000 MPas) is desired.

SOLAGUM™ AX acts as an easy to dose thickener to reach viscosities up to 10,000 MPas

The product is supplied in powder form and it should be added under medium agitation (approx. 1,000 rpm) in order to hydrate and swell in the medium.

## Product performance

SOLAGUM™ AX does not need to be **neutralized**, it is “ready to use” and it will thicken the medium within a couple of minutes after addition under moderate shear.

SOLAGUM™ AX can be used at room temperature and does not require high shear to be activated.

SOLAGUM™ AX is just as effective in acidic, alkaline or oxidizing conditions.

SOLAGUM™ AX can be used in synergistic combinations with other thickeners (guar gums, vinyl polymers, ...)

SOLAGUM™ AX can stabilize solutions containing Monopropylene Glycol (MPG) or glycerin (up to 50%). The gels are stable and perfectly homogeneous in appearance.

SOLAGUM™ AX aqueous gels are not destructured under high shear.

- *Easy to Use*

- *Powder form*

- *No neutralization needed*

- *Wide pH compatibility at a (2-12)*

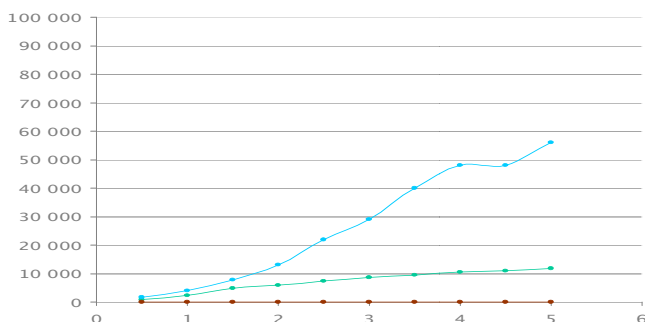
- *Very low use level*

- *No heating /maturing required*

- *Natural raw materials*

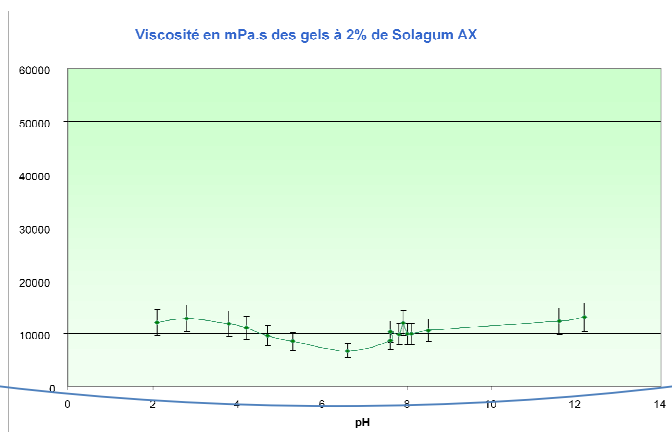
## Optimal polymer ratio viscosity curve:

% added and viscosity (MPas)(Brookfield LVT 6 rpm, 20°C)

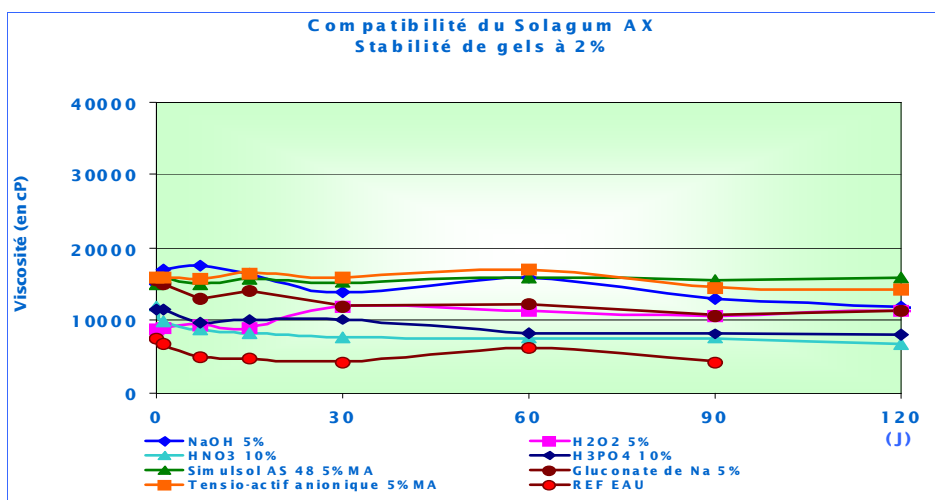


— Xanthan gum  
— Solagum™ AX  
— Acacia gum

## Viscosity is not influenced by pH (between pH 2 and 12)



## Good compatibility with acids, bases and oxidizing agents



Add SOLAGUM™AX to the water containing vessel under agitation in order to prepare a pre-gel. Keep stirring when adding the alkaline or the acidic solution

## Compatibility with electrolytes and with surfactants

Electrolytes decrease the thickening effect of SOLAGUM™AX and they should be added at the end of the process in order to adjust viscosity as desired. This operation may require higher amounts of SOLAGUM™AX.

SOLAGUM™AX is compatible with non-ionic, anionic and amphoteric surfactants.

**It is not compatible with CATIONIC surfactants !**

## Additional information

Storage conditions: in a dry place at room temperature.

Shelf life: use within 12 months from date of manufacture is recommended. Drums should be closed tightly during storage.  
For industrial use only

**Use level: generally between 0.3 % and 3% (gels)**