

Available Products

- ▽ **OLSAacid™ 90/470**
- ▽ **NeutralCal™ 10**
- ▽ **AmorCal™ 400**
- ▽ **AmorCal™ 800ST**
- ▽ **ThixoCal™ 7600**
- ▽ **ThixoCal™ 2000**
- ▽ **ThixoCal™ 2000A**
- ▽ **ThixoCal™ 3000/A**
- ▽ **ThixoCal™ 4400**
- ▽ **ThixoCal™ 4500**
- ▽ **ThixoCal™ 4600**
- ▽ **ThixoCal™ 5000A**
- ▽ **ThixoCal™ 5300**
- ▽ **ThixoCal™ 5400**
- ▽ **ThixoCal™ 5752A**
- ▽ **ThixoCal™ 8100**

To view Soltex's complete line of quality products, visit our website



Thinking and Acting Globally
Global

ThixoCal™ AmorCal™ NeutralCal™ OLSAacid™

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Global Procurement and Supply

↳ Sulfonation Technology for Specialty Applications

ThixoCal™

AmorCal™

NeutralCal™

OLSAacid™



Sulfonation Technology for Specialty Applications

OLSAacid™

At Soltex, we utilize a unique process of Oleum Sulfonation to manufacture specialty performance compounds for a number of industries.

Our process of Oleum Sulfonation offers numerous advantages over other methods of sulfonation, most notably allowing for versatility in feedstock selection. Using this method, we can choose feedstocks or blend feedstocks to build products that are truly application specific.

OLSAacid™ is a highly active sulfonic acid with little free acidity and almost no odor making it very friendly to work with.

OLSAacid™ may be neutralized to produce synthetic sulfonates such as sodium, barium, magnesium, and calcium sulfonates. Because OLSAacid™ is oleum sulfonated, it is an exceptional candidate for conversion into gels for grease making and coatings products.

ThixoCal™

The Soltex line of ThixoCal™ products include compositions of very light colored “Gelled” or Crystalline Calcium Sulfonates in solvent, oil, and water carriers. These products can be purchased either as base components or further formulated for incorporation into numerous types of rust preventive coatings, greases, and lubricants. ThixoCal™ products provide a variety of desirable characteristics in all types of coatings formulations; from automotive underbody and inner-panel coatings to exterior architectural and bridge coatings. Some ThixoCal™ products are used as rheology modifying additives in paint systems, while other products are used as long term and temporary corrosion inhibitors for metal protection in steel structures, pipe, and tubular goods.

The high polarity of ThixoCal™ products provides good wetting of the metal substrate, while the calcite crystalline formation provides barrier protection.

Solvent Based, Oil Based, and Water Based ThixoCal™ products are commercially available.

AmorCal™

AmorCal™ 400 products are high TBN amorphous (Newtonian) calcium sulfonates which are ideal for conversion to calcium sulfonate greases and oil based coatings. These highly polar compounds inherently provide good lubrication, excellent corrosion control, and resistance to water wash out. AmorCal™ 800ST is derived from SO₃ sulfonation. This product finds good utilization in Marine and Engine lubricant additives where reserve alkalinity is desired.

NeutralCal™

NeutralCal™ is an all purpose, highly effective, 60% active calcium sulfonate which provides corrosion protection and dispersant characteristics to a multitude of lubricant and coating formulations.

Molecular Structure of Crystalline Calcium Sulfonate



where: R = aliphatic side chain of 12 to 32 carbon units and $n < \text{or} = 20$

Crystalline Calcium Sulfonate Coating Properties

- ☑ Contain Calcite Crystals
 - ✓ Hexagonal, 50 to 300 Angstroms
- ☑ Gelled, thixotropic (non-Newtonian)
 - ✓ allows high build
 - ✓ imparts sag resistance (up to 60 mils)
 - ✓ enables “one coat” application

Barrier Properties of Calcite Crystals

