

## Stimulation

# Super TSC™

## Scale Control Agent



**Super TSC can prevent scale and iron accumulation in the formation and wellbore allowing for enhanced permeability in the formation and scale free tubulars.**

**S**uper TSC is a blended, scale control liquid that does not affect the frac fluid pH due to its low effective feed rate, and chemically keeps carbonate and sulfate based scales from developing within the formation. One of the Super TSC ingredients prevents calcium carbonate scale formation by a mechanism called crystal modification so that scale accumulation is prevented due to the irregular shaped crystalline salts.

Calcium, barium, or strontium sulfate scales do not form as a result of the Super TSC having the proper molecular weight additives in the formulation. The third component is a copolymer that provides product stabilization and iron stabilization.

These three ingredients can then prevent scale and iron precipitates which can restrict permeability within the formation and inhibit hydrocarbon production.

### Purpose

Super TSC is a new liquid, non damaging scale control chemical that provides protection against the formation of carbonate and sulfate based scales. Frac water can dissolve limestone and other minerals during the stimulation process and the resulting ions become part of the flowback water chemistry. Super TSC will prevent scale and iron accumulation in the formation and wellbore to allow for enhanced permeability in the formation and scale free tubulars.



724-465-8904  
www.swsi.com

© 2009  
Superior Well  
Services Inc.

## Benefits

- Excellent scale control chemistry
- Engineered to address virtually all scaling situations.
- Safe to handle.
- Can be added during the stimulation treatment. It does not affect the frac fluids pH due to its low effective feed rate and thus allows for optimum performance of the Friction Reducer (FR), iron control agents, and biocide performance.
- Completely soluble in water and brines.
- Environmentally safe.

## Recommended Loadings

Recommended dosages of Super TSC are dependent upon the prediction of and the likelihood of the types of scale to form. A calculation called the Langelier Saturation Index (LSI) is used to predict the possibility of a calcium carbonate scale to form. SWSI sales and tech personnel can recommended concentrations to minimize scaling while providing an economical frac treatment.

## Performance Data

Density:	9.05 lbs/gallon
Specific Gravity:	1.065-1.105
Solubility in Water:	Complete
Boiling Point (°F):	Not available
Freezing Point:	-26°F
Appearance:	Clear, colorless liquid
Odor:	Little to no odor

## Special Handling/Precautions

Refer to the Material Safety Data Sheet (MSDS) for handling and safety precautions.

## Ordering Information

Name:	Super TSC
Part Number:	xx-35-515-5040
Package:	265 gallon totes

Refer to the current SWSI Price Book for pricing information.

Superior Well Services, Inc.  
[www.swsi.com](http://www.swsi.com)

