

SD27X

SD27X is a non-damaging stimulation and descaling additive that dissolves **barite**, drilling fluid additives, **calcium carbonate** and **sulphate scales** (magnesium, strontium, calcium, and barium sulphate). It is unique in that it works significantly faster at a higher capacity than any competitive products (an order of magnitude faster than other products and with 4 to 6 times the capacity). It is a single phase, alkaline (pH +/-12) chemical that is **non-corrosive** and **environmentally benign**. It is inorganic, hence has high temperature limits.



Result with OBM cake: Before (right) and after (left) SD27X treatment for 6 hrs @ 90 °C gave 95% dissolution.

SD27X is a mix of chelating agents with catalysts and reaction accelerators, a result of a 4-year development project.

- Dissolves Barite, barium sulphate scale and other sulphate compounds
- Dissolves CaCO₃
- Dissolves clays at 2-4%
- Tends to de-emulsify
- Inhibitive to clays and will shrink and dehydrate clays
- Non-corrosive and environmentally friendly

SD27X thus is primarily used for:

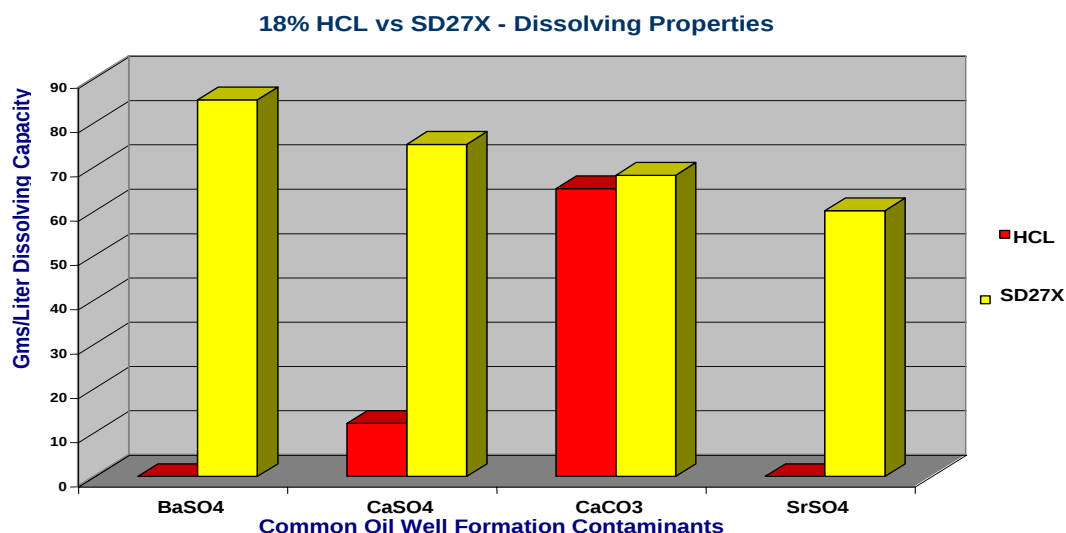
1. **Stimulation** – the more effective alternative to acids.
2. **Differentially pressured stuck pipe** – the only pipe release agent (PRA) designed for SBM/OBM (works even better in WBM).
3. **Barium and strontium sulphate scales**.
4. **Screened wells** to dissolve the filter cake behind the screen thus increasing production.

SD27X works in both oil based and water based mud systems so that it removes oil based and water based mud filter cake in open holes as well as perforations. It removes well bore damage, scale, and barite/BaSO₄ deposits. **SD27X** was developed to be a pipe release agent (PRA) for differentially stuck pipe in SBM/OBM's. It works in WBM too.

SD27X has a specific gravity of 1.31.

SD27X was **Gold Banded** in the OCNS CEFAS system in the UK, the best environmental rating possible.

SD27X is packaged in 200 liter drums, four to a pallet.



SD27X™ dissolves a wider variety of minerals and scales than does HCL and HF without producing precipitates, re-precipitates, and/or gaseous by-products.

Not All Chelating Agents Are Created Equal

It is an increasing trend for companies to state they use chelates, and even multichelates. Malic acid, tartaric acid, citric acid, NTA, HEIDA, HEDTA, EDTA, CyDTA, GLDA, and DTPA amongst others are chelants. They have been around for many years. What has prevented widespread adoption is that these compounds exhibit a **low capacity** and dissolution rates **too slow** for the industry, but nevertheless are now being marketed for use. **SD27X is the result of a 4 yr development project with the sponsorship of Amerada Hess and BP** with multiple chelating agents, catalysts and a reaction accelerator resulting in more than 10x faster and 4-6 times the dissolve capacity of the off-the-shelf chelants.

