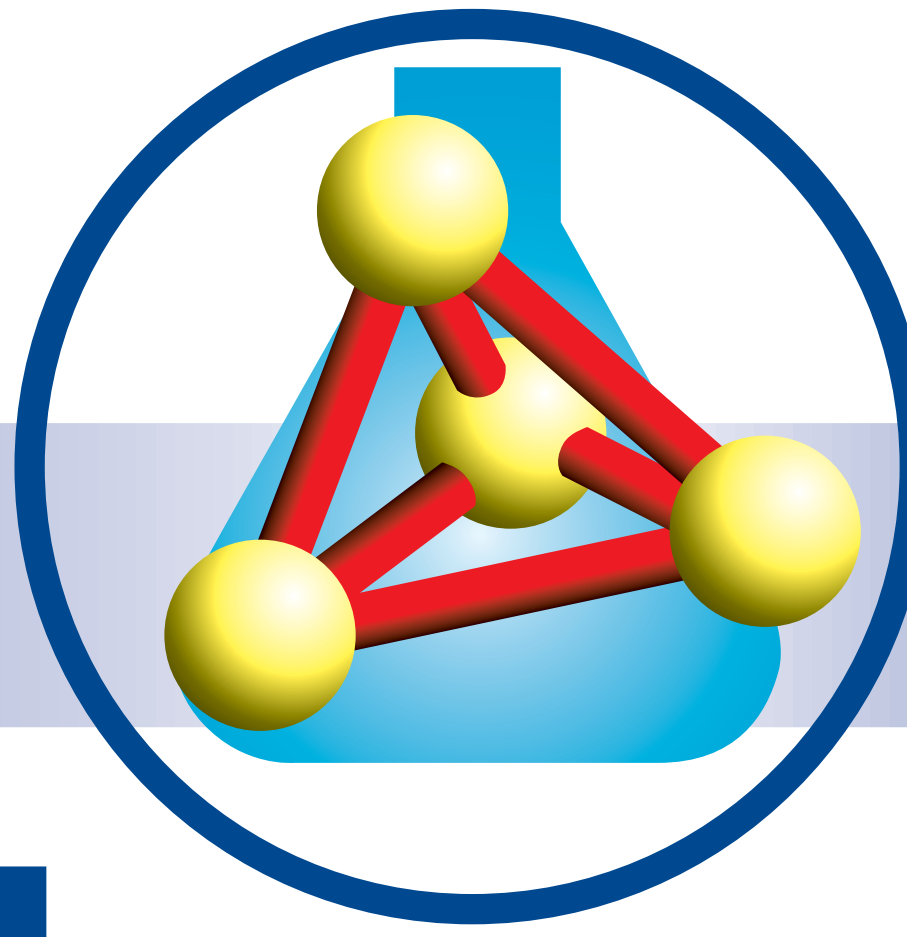




DEQUEST®

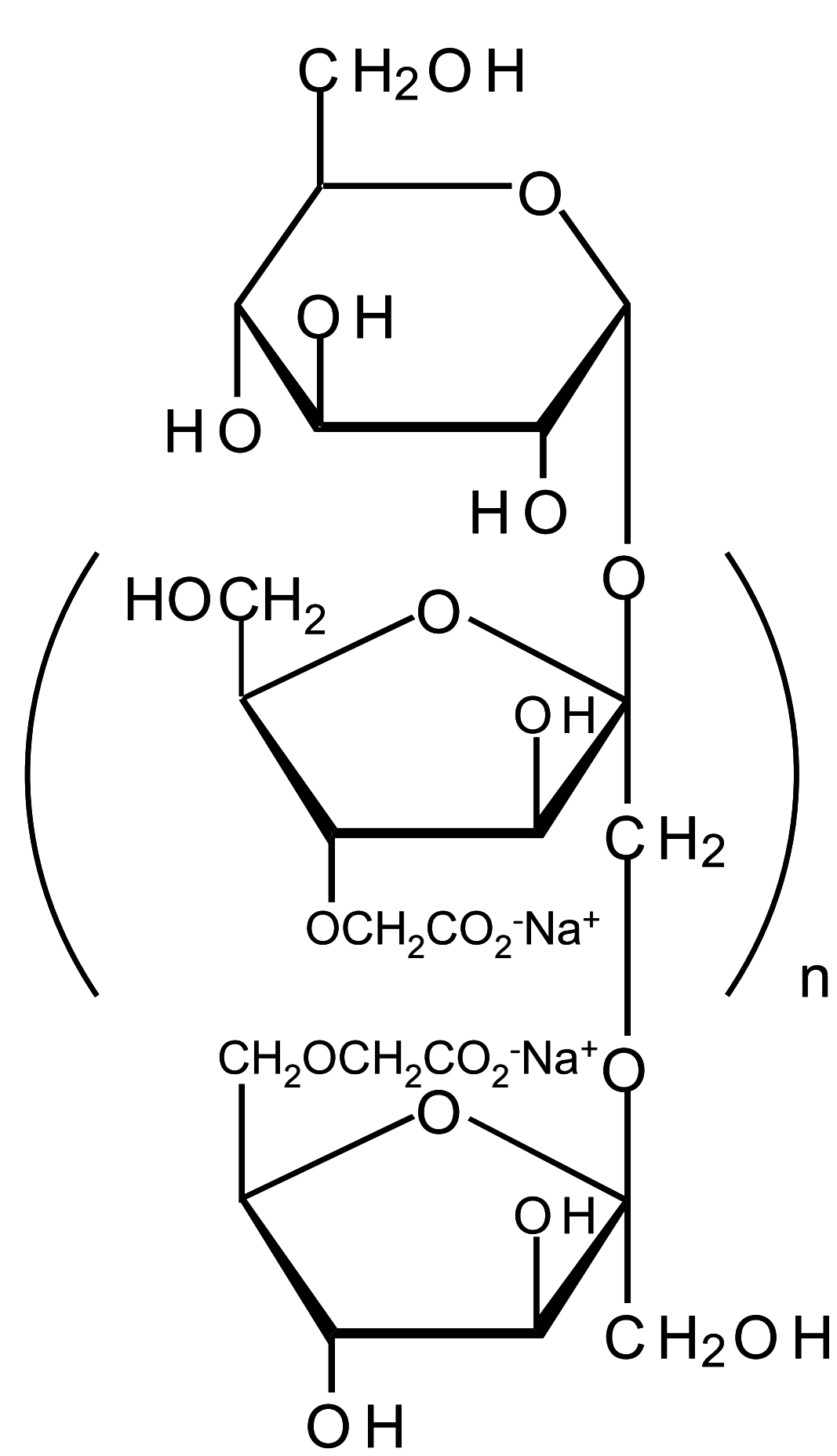


Italmatch Chemicals

Oilfield Additives

Dequest® Phosphonates and Polymers are used as antisclalants, dispersants, corrosion inhibitors, cement retarders and chelants.

- ◆ Acidizing
- ◆ Cementing
- ◆ Continuous Injection
- ◆ Drilling Muds
- ◆ EOR—Flooding
- ◆ Fracturing
- ◆ Squeeze Treatment
- ◆ Sulphate Removal
- ◆ Topside Scale Inhibition
- ◆ Utilities Water Treatment



Dequest® Innovative Chemistry Dequest® PB Carboxymethyl Inulin A Vegetable Derived Polymer

Carboxymethyl inulin (CMI) is derived from a natural ingredient isolated from the chicory root and provides an environmentally friendly, cost-effective, safe and versatile alternative to traditional threshold scale inhibitors. CMI has very good sequestration and dispersant properties for scales such as CaCO₃ and BaSO₄ scale.

Dequest® FS 8235 New Scale Control Technology for Complex Brines

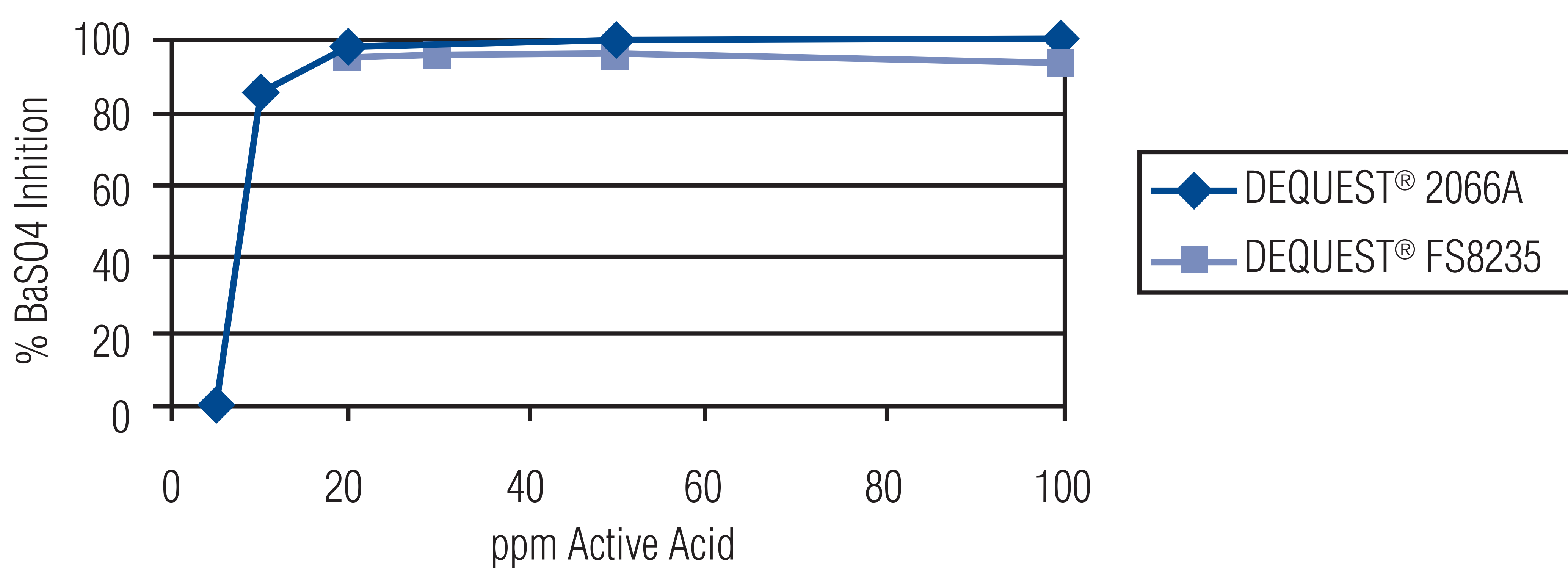
CaCO₃ Scale Inhibition Performance in High Ca/High TDS Water/Fe²⁺

The test was performed using 100% Shearwater with a level of bicarbonate of 560 ppm. The temperature and pressure were 100°C (212°F) and 250 psi respectfully with a pH range between 6.1 and 6.3.

Test Results for the Minimum Inhibitory Concentration			
	0 ppm Fe ²⁺	200 ppm Fe ²⁺	2000 ppm Fe ²⁺
DEQUEST® FS 8235	1.5–2.5 ppm	~10 ppm	1.5–2.5 ppm

BaSO₄ Scale Inhibition in a 50/50 Blend of North Sea and Forties Waters

This static test was performed using 50% North Sea water and 50% Forties water. The temperature was 90°C (194°F) with a pH of 5.5 and aged for 22 hours.



Dequest® Traditional Chemistry



Property	DeQuest Product									
	D2000 D2006	D2010 D2016	D2054	D2060S D2066A	D2086	D7000	D2090	P9020 P9030	PB11625	
CaCO₃ Inhibition	+++	+++	++	++	++	+++	+++	++	++	
CaSO₄ Inhibition	++	+	+++	++	+++	+	+++	++	+++	
BaSO₄ Inhibition	++	+	++	+++	+++	+	++	++	++	
Corrosion Inhibition	+++	+++	+	++	++	+	+	+	+	
High T° Stability	++	++	+++	+++	++	++	+++	+++	++	
High [Ca] Tolerance	+++	++	+	+++	+++	+++	++	+++	+++	
Iron Tolerance	++	+++	+	+	++	++	+	++	+++	
Chlorine Stability	-	++	-	-	-	+++	-	++	+++	
Some Typical Applications	Topside Low Ca	General Ca	Ca Down Hole	Top Scale Squeeze	Ba Scale Squeeze	Topside	Steam Flood	Down Hole	Topside	