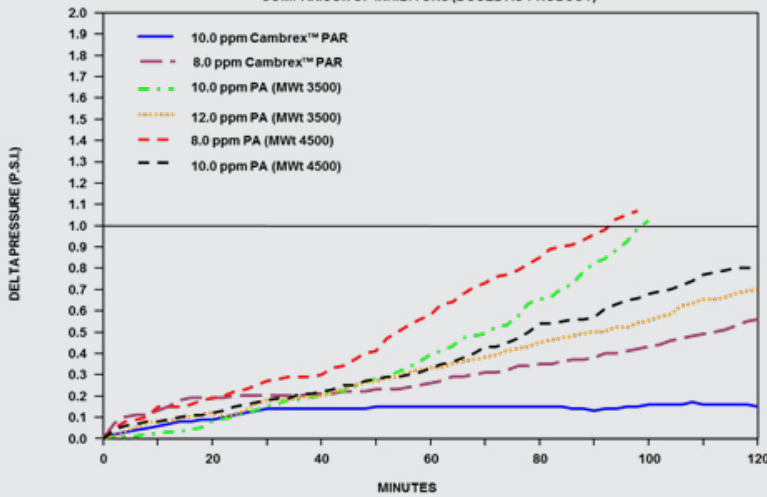


# CAMBREX™ PAR

Sulphate and carbonate scale inhibition with iron tolerance.

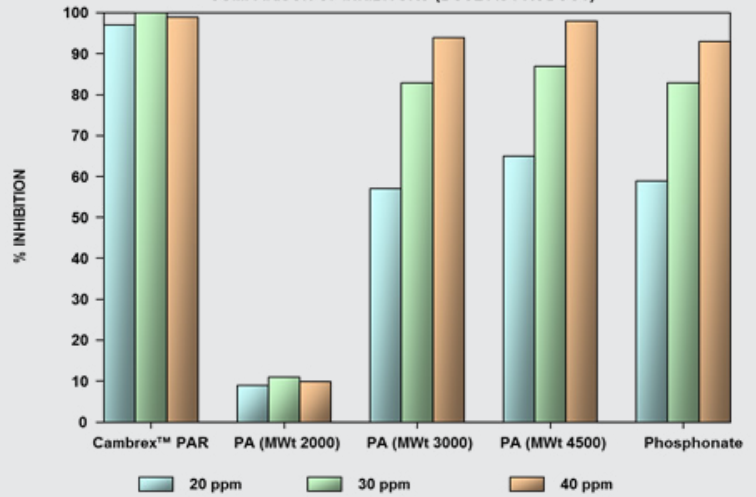
**CALCIUM CARBONATE TUBE BLOCKING TEST**  
COMPARISON OF INHIBITORS (DOSED AS PRODUCT)



Calcium Carbonate Tube Blocking Test Conditions

Ca <sup>2+</sup>	400 ppm
Mg <sup>2+</sup>	1202 ppm
Na <sup>+</sup>	10522 ppm
K <sup>+</sup>	395 ppm
Cl <sup>-</sup>	18711 ppm
SO <sub>4</sub> <sup>2+</sup>	2623 ppm
CO <sub>3</sub> <sup>2-</sup>	184 ppm
TDS	34037 ppm
Temperature	90°C
Flow Rate	0.5 m/s
Coil	1 m long 1.1 m ID stainless steel
<i>Acceptable treatment determined by minimum dose level required to maintain ΔP less than 1 psi in 2-hour timescale</i>	

**BARIUM SULPHATE THRESHOLD TEST**  
COMPARISON OF INHIBITORS (DOSE AS PRODUCT)



Barium Sulphate Threshold Test Conditions

Ba <sup>2+</sup>	127 ppm
Sr <sup>2+</sup>	335 ppm
Ca <sup>2+</sup>	1762 ppm
Mg <sup>2+</sup>	918 ppm
SO <sub>4</sub> <sup>2+</sup>	1214 ppm
HCO <sub>3</sub> <sup>-</sup>	251 ppm
TDS	63544 ppm
Time	4 hours
pH (Acetate buffer)	5.5
Temperature	70°C

## Benefits

- Double the sequestration capacity of Calcium vs. 39 % EDTA
- Cleans Calcium based deposits 5x faster than equal concentrations of EDTA
- Excellent Iron control with unaffected performance in the presence of 100 ppm Iron
- Low aquatic toxicity as measured by LC50, EC50 and EBC50 parameters
- Biodegradability: estimated 25 – 35 % in 28 days by OECD 302b
- Does not contain any toxic substances listed under California Proposition 65