

The introduction of ultra lightweight (ULW) particles for gravel pack was deemed a “Quantum Leap in Horizontal Gravel Pack Technology” (SPE 94945). The development of FloMax SSC™ with a specific gravity of 1.06 in a stable nanocomposite co-polymer bead provides the operator with sand control placement not previously achievable. FloMax SSC™ can be placed in higher volumes with lower pumping rates and less fluid volume allowing the operator to achieve both production and economic goals.

The spherical form of FloMax SSC™ accomplishes the primary goal of formation retention and sand control providing an optimum flow path around a smooth surface for the produced fluids to reach the well bore unrestricted. The challenges for production companies in the years to come will be to drill deeper, in higher temperature environments and to drill further horizontally into producing formations. Gravel pack placement issues need a solution (SPE 98298); FloMax SSC™ provides it.

FloMax SSC™ is durable, not acid soluble, will not crush or break forming production restricting fines and contaminating the effluent stream. The 14/40 and 30/80 size ranges deliver the particle size distribution most needed to accomplish a good well design.

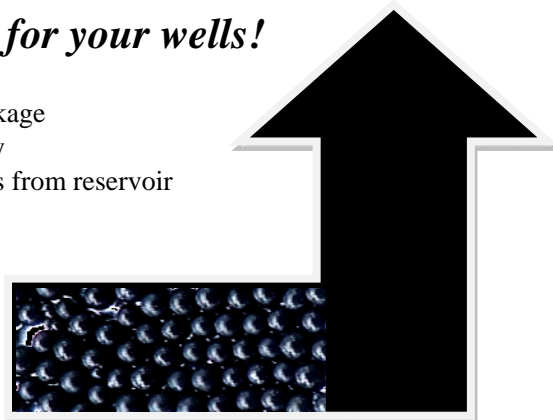
### *The newest technology in beads for your wells!*

#### ADVANTAGES

- ◆ Tested for 1,000+ hours under constant pressure and heat with no breakage
- ◆ Use of low-density gravel pack material improves placement efficiency
- ◆ Spherical shape of gravel pack material allows for maximum flow rates from reservoir
- ◆ Resistance to deformation is greater than 26,000 psi hydrostatic
- ◆ Durability to extend well production life

#### PHYSICAL PROPERTIES

- ◆ Form: Spherical solid bead
- ◆ Color/Size: Black 14/40 & 30/80 mesh  
1400µ-425µ & 595µ-180µ
- ◆ Specific gravity: 1.06



#### PACKAGING

- ◆ FLOMAX SSC™ GRAVEL PACK - Available in 50 lbs (22.6 Kg) sacks, 48 or 50 sacks per pallet, 2000 lb. super-sacks

FLOMAX SSC TEST RESULTS			
TEST	ISO 13503-2 SECTION	RESULT	COMMENTS
Crush Resistance	11	No (0.0%) fines generation, as mass percentage going through a 40 U.S. mesh size screen	Starting from 14/16 U.S. mesh size beads, measured under a load of 48.26 MPa (7000 psi)
Sphericity	7	0.9 ± 0.0	0.9 for each of 20 sample beads
Roundness	7	0.9 ± 0.0	0.9 for each of 20 sample beads
Acid Solubility (%)	8	1.28 ± 0.06	Measured by mass
Turbidity (FTU)	9	29	Measured using spectrophotometer
Bulk Density (g/cm <sup>3</sup> )	10.3	0.66 ± 0.01	None
Absolute Density	10.5	1.054 ± 0.011	None



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