

March 2009

**Harmsco PSL Bead Tests Results (Test Dust)
Field Samples**

Feed Test Tank Volume: 14 gallons

Cartridge: HSC-4, flow rate per square foot of filtering media, and the media itself, is the same between SC and HS products.

Test Conditions: Tests conducted at 100%, 75%, 50% and 25% of initial flow. Cartridge was loaded with test dust. Inlet pressure was 60 PSI (maintained).

Sampling: Influent and effluent samples were collected 2 minutes and 3 minutes after the injection of PSL beads.

Summary of Results

Test No.	Flow Rate (gpm)	Cartridge Loading (%)	Influent Bead Concentration/250 mL	Effluent Bead Concentration/250 mL	Log removal
1	6.84	0	2.07×10^5	0	5.31
2	5.04	26	4.23×10^5	0	5.61
3	3.31	52	4.90×10^5	0	5.69
4	1.76	74	5.56×10^5	0	5.75

Comments:

- Complete removals of PSL bead were achieved at all loading conditions of the cartridge.
- Log removal values increased gradually due to increasing feed concentrations of beads.