

# INDUSCO DUST COLLECTOR APPLICATION QUESTIONNAIRE

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Submitted:  
Name & Title \_\_\_\_\_  
Firm Name \_\_\_\_\_  
Address \_\_\_\_\_  
City & State \_\_\_\_\_  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_  
E-Mail \_\_\_\_\_

The following should be filled in as completely as possible to help us understand the nature of your problem. Please disregard questions not applicable.

## OPERATING DATA:

### GAS

1. Source of Dust Laden Gas \_\_\_\_\_
2. Gas Composition \_\_\_\_\_  
& H<sub>2</sub>O By Volume \_\_\_\_\_  
By Weight \_\_\_\_\_  
Or Humidity \_\_\_\_\_ lbs. H<sub>2</sub>O per lb. dry gas
3. Normal Gas Volume \_\_\_\_\_ SCFM (Define Standard Conditions) \_\_\_\_\_  
\_\_\_\_\_ ACFM \_\_\_\_\_ Temp. \_\_\_\_\_ Press.
4. Plant Elevation \_\_\_\_\_ FT
5. Fluctuations in volume, temperature, and/or pressure \_\_\_\_\_  
\_\_\_\_\_
6. External System Resistance \_\_\_\_\_ Inches W.G. (Required for WS Scrubbers)

### DUST

7. Concentration or Loading \_\_\_\_\_ (grains/ft<sup>3</sup>) (lbs./hr)
8. Specific Gravity \_\_\_\_\_; Bulk Density \_\_\_\_\_ lbs./ft<sup>3</sup>
9. Physical Nature: Is Material Corrosive , Abrasive , Sticky , Explosive , Toxic , Friable , Hygroscopic , Spherical , Fibrous , and/or \_\_\_\_\_ .
10. Particle Size (describe method of determination) \_\_\_\_\_  
\_\_\_\_\_

### Micron Size

### Percent By Weight

40+

\_\_\_\_\_

20

\_\_\_\_\_

10

\_\_\_\_\_

05

\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

On scrubber applications, obtain particle size distribution below five (5) microns.

**Construction**

11. (a) Past Experience and/or customer requirements demands \_\_\_\_\_  
material \_\_\_\_\_, \_\_\_\_\_ inches thick.  
Comments \_\_\_\_\_  
\_\_\_\_\_

(b) Is gas corrosive? \_\_\_\_\_; or when wet \_\_\_\_\_

(c) What fuel is being burned? \_\_\_\_\_

(d) Design Pressure \_\_\_\_\_: Temperature \_\_\_\_\_

(e) General Comments, i.e., inspection doors, etc. \_\_\_\_\_  
\_\_\_\_\_

12. Has other cleaning equipment been used or tested on this problem? \_\_\_\_\_  
\_\_\_\_\_

13. If so, is other cleaning equipment acceptable? \_\_\_\_\_

14. Other equipment not acceptable because of:

a) Insufficient capacity \_\_\_\_\_

b) Low efficiency \_\_\_\_\_

c) High initial cost \_\_\_\_\_

d) Excessive maintenance \_\_\_\_\_

e) Other \_\_\_\_\_

**ADDITIONAL DATA REQUIRED FOR SCRUBBERS**

15. Contaminants: (a) solids (b) liquid (c) gas \_\_\_\_\_

16. Soluble or Insoluble in water; comments \_\_\_\_\_

17. Scrubbing Liquid:

a) Water or \_\_\_\_\_

b) Source \_\_\_\_\_

c) Amount Available \_\_\_\_\_ GPM \_\_\_\_\_ PSIG

d) Are process liquids available? If so, state nature \_\_\_\_\_  
\_\_\_\_\_

Provide system layout sketch if possible.