

TEST REPORT

W. H. STOKES & COMPANY, INC.

Dallas, Texas

Test No. 47-113

Handled By: [REDACTED]

Customer: [REDACTED]

Date Completed: [REDACTED]

Address: [REDACTED]

Time Required: 1 Day

Material: Fluid Synthetic Catalyst

Net Wt. Fed'd: 570 Pounds

Operative Field: Increase overall activity by removing the spent catalyst.

Test Apparatus: Laboratory B-100 Air Float Separator.

Test Data:

Capacity (Lbs./Hr.) 1600

Boiler Head #11

Air Flow 250

Air Gate Reading: Closed (dampened)

Cond. Pressure: 3.6 (Inches water)

Motor Power 3.4

(Output) Rot. Shaft Speed: 400

(RPM) Inlet Pulse: 1 1/20

End Pulse: 2 1/20

Disposition of Samples: Salesman: Large vials to [REDACTED]
Shipper: Approximately ten (10) pounds of each product.
Procedure: Laboratory: Large vials; remainder of material held pending disposition.

TEST REPORT

BRITON, SMITH & STEELE INC.

Date: _____

Test No. 47-113

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Date: [REDACTED]

Procedure:

I - Description of Material:

The "crude as received" was composed of synthetic granules roughly ranging in size from 48 mesh to 10 micron, and below. A 200 mesh screen would roughly split the material when new.

As with the "natural" type of fluid catalyst, the object was to remove the larger granules which were thought to compose the major part of the inactive fraction.

II - Tabling:

Without presizing, the material was fed, as received, to the separator. A feed-area dust hood was attached and the dust fan gate set 1/5 open.

Cutting the heavier, larger particles of the discharge into as many fractions, as seemed practical for analyses purposes, six (6) products were obtained as follows:

- Product #1 - The largest granules, (containing the small amount of sand present.)
- Product #2 - Next heaviest granules, (with lower apparent density than #1.)
- Product #3 - Lighter and smaller granules than #2.
- Product #4 - " " " " " #3.
- Product #5 - " " " " " #4.
- Product #6 - Dust hood product of extreme fines.

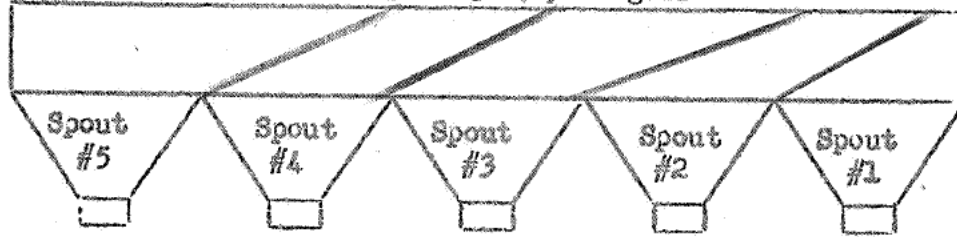
Weights per cubic foot were taken on all products (see last page.)

TABLE RESULTS

TEST NO. 47-113

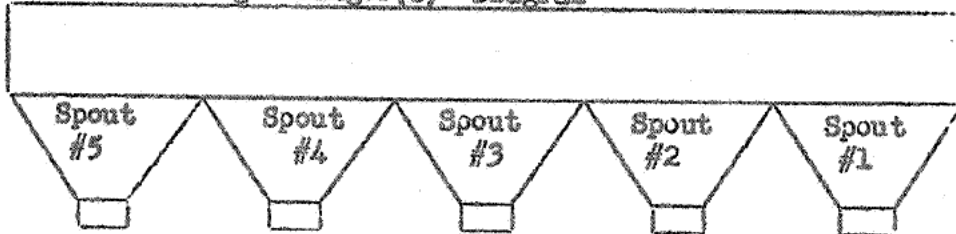
DATE: [REDACTED]

Cutting Finger(s) Diagram



PRODUCT	SPOUT	WEIGHT (Lbs.)	%	Lbs./Cu.Ft.
#1	#1	2.25	0.5	65
#2	#2	7.5	1.7	52
#3	#3	1.0	0.2	48
#4	#4	16.75	3.7	45
#5	#5	119.5	93.7	44
#6	Dust hood	1.0	0.2	38
		<u>118.0</u>	<u>100.0</u>	
	Deck Load -	<u>17.0</u>		
	Total-	<u>165.0</u>		

Cutting Finger(s) Diagram



PRODUCT	SPOUT	WEIGHT	%
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