

Vegetable Oil and Motor Oil Adsorption Capacity Analysis by Weight

Tests were performed on ADSORBIT[®] sorbent media to determine its capacity to sorb oils.

Method

The tests were performed using guidelines described in ASTM Method F726-81, "Sorbent Performance of Adsorbents". This test method measures the maximum adsorption of oils and floating immiscible liquids. The materials tested were representative samples of ADSORBIT[®] bulk material. The oils used were 30W motor oil and a liquid vegetable oil. Three replicates were performed for each type of oil.

Results

Vegetable Oil - ADSORBIT[®] adsorbed approximately 17 times its weight in vegetable oil.

ADSORBIT Bulk Material	ADSORBIT Weight in Grams	Sorbed Oil Weight in Grams	ADSORBIT Ratio to Sorbed Oil	Replicate #2				
Replicate #1	3.71	59.65	16.1x	Replicate #1 0 20 40 60 80				
Replicate #2	3.45	59.25	17.2x	Grams	Grams			
Replicate #3	4.03	71.53	17.7x	Sorbed Oil ADSORBIT				

ADSORBIT Bulk Material	ADSORBIT Weight in Grams	Sorbed Oil Weight in Grams	ADSORBIT Ratio to Sorbed Oil	Replicate #3 Replicate #2				•
Replicate #1	3.44	70.17	20.4x	Replicate #1	20	40	60	80
Replicate #2	3.30	72.33	21.9x			Grams		
Replicate #3	4.03	71.53	17.7x	∎ S	orbed Oil	ADSO	RBIT	

Conclusions

The bulk ADSORBIT[®] material's adsorption capacity:

Approximately: 17 times its weight in vegetable oil and 20 times its weight in motor oil.