

“Oil Sponge” Absorbency Tests

The following tests were performed by Mr. Andrew Alles, R & D and Safety Director, J.V. Manufacturing Company, manufacturers of the Spilfyter Product Line. The object of the test was to determine if a 1.5 cu.ft. (30lb.) bag of “Oil Sponge Remedial/G.P Premium Absorbent would absorb at least 18 gallons of 40W SAE Oil.

- In the lab, Mr. Alles measured and weighed 10ml of 40W SAE Oil. The 10ml of Oil weighed 8.56 grams, or 0.856 grams per 10ml.
 - 1) 18 gallons of Oil in millilitres is
 $(18 \text{ gal.})(3.785 \text{ L/gal.})(1000\text{ml/L}) = 68,130 \text{ ml}$
 - 2) 18 gallons of 40W SAE Oil, weight in grams
 $(68,130 \text{ ml})(0.856\text{g/ml}) = 58,319.28 \text{ grams}$
- Mr. Alles tested the absorbency ability of “Oil Sponge” Remedial/G.P using ASTM standards. The results indicate this product will absorb 6.61 to 7.31 times its own weight in 40W SAE Oil.
 - 3) 1.5 cu.ft. bag of “Oil Sponge” weighs 30 lbs.
30 lbs. of “Oil Sponge” in grams is $(30 \text{ lbs.})(453.592 \text{ g/lb.}) = 13,607.76 \text{ g.}$
 - 4) Amount of 40W SAE Oil absorbed (6.61x)
 $(6.61)(13,607.76 \text{ g.}) = 89,947.29 \text{ g.}$
 - 5) Amount of 40W SAE Oil absorbed (7.31x)
 $(7.31)(13,607.76 \text{ g.}) = 99,472.73 \text{ g.}$
- Since 89,947.29 g. and 99,472.73 g. is greater than 58,319.28 g. of 40W SAE Oil, a 30 lb. Bag of “Oil Sponge” Remedial/G.P could absorb 18 gallons or more of 40W SAE Oil.
- Other results indicated the following absorbency amounts of “Oil Sponge” Remedial/G.P for these petroleum products:

	<u>Test #1</u>	<u>Test #2</u>	
Kerosene	8.24	8.16	Times its own weight
Fuel Oil #2	7.49	7.47	Times its own weight
Waste Oil	4.90	5.62	Times its own weight

Conclusion: The tested product absorbed the selected liquids according to Manufacturers claims.