

MATERIALS, PROCESS & EQUIPMENT

MATERIALS ENGINEERING

Absorbent Spill Kits

REPORT No.: VC3085

DATE: 14/11/97

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INTRODUCTION:

Three types of spill kit were submitted for evaluation. They were labelled Cornelius "Star-Dust", Milfitec "Oil Sponge", and Dri Absorbent". Dri Absorbent is currently the most commonly used material. This follows on from the work reported in VC2155 (23/7/97) where various types of spill kit were assessed.

PROCEDURE:

The absorbent was evaluated by finding how much of it was required to absorb known quantities of engine oil.

RESULTS:

The following results were obtained. All are powder absorbents apart from Dri-Absorbent which had much larger and coarser particles. The results from Zeolite (another powder absorbent) were included from the last investigation for comparison.

Absorbent used	Oil absorbed (cm ³)									
	5		10		20		30		40	
	cm ³	gms	cm ³	gms	cm ³	gms	cm ³	gms	cm ³	gms
Stardust	12	2	25	4	45	8	65	11	100	17
Oil Sponge	8	4	15	7	32	15	45	21	65	30
Dri Absorbent	35	27	55	43	70	54	100	78	120	93
Zeolite	14.5	15	30	31	56	58	80	83	110	114__

The table shows the volume of absorbent used (in cm³) and its equivalent mass (in grams).