

TEST REPORT

CLIENT: METALLURGY AND MATERIALS SCIENCE RESEARCH INSTITUTE, REPORT NUMBER: R 0140/64
CHULALONGKORN UNIVERSITY. APPLICATION FORM No.: -
SOI CHULALONGKORN 12, WANG MAI, PATHUM WAN DISTRICT, ISSUE DATE: 28/05/21
BANGKOK 10330 PAGE: 1/3

DATE OF RECEIPT: 12/05/21
DATE OF TEST: 13/05/21-28/05/21

SAMPLE NUMBER SAMPLE NAMES (AS SPECIFIED BY THE CLIENT)
R 0140-1/64 N95
SKU # SMS-N95-08-0001
PRODUCTION LOT : 21-05-01

SAMPLE DESCRIPTION ONE SAMPLE OF NONWOVEN

	CLIENT'S REQUIREMENT	R 0140-1/64	CONCLUSION
FLAMMABILITY: ASTM F 2100 : 2019 9.5 / 16 CFR PART 1610			
AS RECEIVED			PASS
FLAME SPREAD TIME (SECONDS)			
TEST SPECIMEN 1		DNI	
TEST SPECIMEN 2		DNI	
TEST SPECIMEN 3		DNI	
TEST SPECIMEN 4		DNI	
TEST SPECIMEN 5		DNI	
CLASSIFICATION	CLASS 1	CLASS 1	

REMARK(S): - DNI = DID NOT IGNITE.

- REQUIREMENTS:

CLASS 1 (NORMAL FLAMMABILITY)

TEXTILES MEETING THESE REQUIREMENTS ARE GENERALLY ACCEPTED BY THE TRADE AS HAVING NO UNUSUAL BURNING CHARACTERISTICS.

- (1) PLAIN SURFACE TEXTILE FABRIC SHALL BE CLASSIFIED AS CLASS 1 WHEN THE BURN TIME IS 3.5 SECONDS OR MORE.

- (2) RAISED SURFACE TEXTILE FABRIC SHALL BE CLASSIFIED AS CLASS 1 WHEN THE BURN TIME IS MORE THAN 7 SECONDS OR WHEN THEY BURN WITH A RAPID SURFACE FLASH (0 TO 7 SECONDS), PROVIDED THE INTENSITY OF THE FLAME IS SO LOW AS NOT TO IGNITE OR FUSE THE BASE FABRIC.

AUTHORIZED BY

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223153

“การปลอมรายงานผลการทดสอบ ไม่ว่าจะเป็นการปลอมทั้งฉบับหรือแต่ส่วนหนึ่งส่วนใด หรือใช้รายงานผลการทดสอบปลอม เป็นความผิดตามประมวลกฎหมายอาญา”

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	CLIENT'S REQUIREMENT	R 0140-1/64	CONCLUSION
DIFFERENTIAL PRESSURE (DELTA P): ASTM F 2100 :2019 9.2 / EN 14683:2019			
DELTA P (mmH ₂ O/cm ²)	LEVEL 1 BARRIER: < 5		PASS
- TEST SPECIMEN 1		4.6	
- TEST SPECIMEN 2		4.2	
- TEST SPECIMEN 3		4.1	
- TEST SPECIMEN 4		4.5	
- TEST SPECIMEN 5		4.1	
AVERAGE		4.3	

REMARK(S):
- DELTA P FLOW RATE : 8 LITERS PER MINUTE (L/min)
- TEST APPARATUS : FACE MASK DIFFERENTIAL PRESSURE TESTER

	CLIENT'S REQUIREMENT	R 0140-1/64	CONCLUSION
PARTICLE FILTRATION EFFICIENCY: ASTM F 2100: 2019 9.3/ ASTM F2299-03⁺			
PARTICLE FILTRATION EFFICIENCY (%)	LEVEL 1 BARRIER: ≥95		PASS
- TEST SPECIMEN 1		99.90	
- TEST SPECIMEN 2		99.92	
- TEST SPECIMEN 3		99.93	
- TEST SPECIMEN 4		99.95	
- TEST SPECIMEN 5		99.94	
AVERAGE		99.93	

REMARK(S):
- AREA TESTED : 17.35 cm²
- PARTICLE SIZE : 0.1 μm
- ENVIRONMENT : 23 ± 5°C AND 48 ± 5% RELATIVE HUMIDITY (RH) FOR 4 HOURS.

⁺ THE TEST RESULTS ARE FROM SUBCONTRACT LABORATORY.

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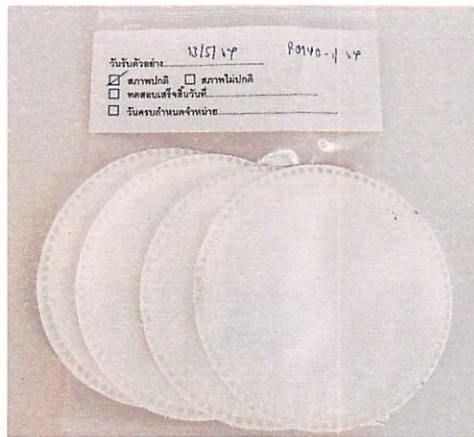


FIGURE 1: R 0140-1/64

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