

Individual Laboratory Results

NVLAP Bulk Asbestos Proficiency Test
August 30, 2017, Round M22017

NVLAP Lab Code 200655
Hawaii Analytical Laboratory, LLC
3615 Harding Ave., Suite 308
Honolulu Hawaii 96816-3759
United States

PROFICIENCY TEST M22017 SUBTOTALS

Sample 1.....	0
Sample 2.....	0
Sample 3.....	0
Sample 4.....	0
TOTAL POINTS:	0

Failure = 150 or more total points

Prepared by RTI International

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Sample 1

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	NONE	None	None	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	

Total Points Assigned for Sample 1: 0

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Sample 2

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	AMOS	AMOS	Amosite	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	
Mean % Asbestos (50 pts.)	4.0	4.1 %	1.0 % to 7.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$)	$\alpha = 1.678$ $\gamma = 1.695$	$\alpha = 1.679$ $\gamma = 1.700$	α : 1.672 to 1.705 γ : 1.689 to 1.708	
Birefringence (10 pts.)	M	Moderate	Moderate	
Pleochroism (10 pts.)	N	No	Yes or No	
Extinction (10 pts.)	P	Parallel	Parallel	
Sign of Elongation (10 pts.)	P	Positive	Positive	
Color (10 pts.)	CL	Colorless	Colorless, Brown, Green, or Other	

Total Points Assigned for Sample 2: 0

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Sample 3

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	CHRY	CHRY	Chrysotile	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	
Mean % Asbestos (50 pts.)	2.0	3.8 %	1.0 % to 8.0 %	
Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$)	$\alpha = 1.550$ $\gamma = 1.558$	$\alpha = 1.549$ $\gamma = 1.556$	α : 1.545 to 1.554 γ : 1.551 to 1.561	
Birefringence (10 pts.)	L	Low	Low or Moderate	
Pleochroism (10 pts.)	N	No	No	
Extinction (10 pts.)	P	Parallel	Parallel	
Sign of Elongation (10 pts.)	P	Positive	Positive	
Color (10 pts.)	CL	Colorless	Colorless	

Total Points Assigned for Sample 3: 0

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Sample 4

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	CHRY	CHRY	Chrysotile	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	
Mean % Asbestos (50 pts.)	40.0	53.1 %	37.0 % to 69.0 %	
Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$)	$\alpha = 1.549$ $\gamma = 1.557$	$\alpha = 1.549$ $\gamma = 1.557$	α : 1.546 to 1.553 γ : 1.550 to 1.561	
Birefringence (10 pts.)	L	Low	Low or Moderate	
Pleochroism (10 pts.)	N	No	No	
Extinction (10 pts.)	P	Parallel	Parallel	
Sign of Elongation (10 pts.)	P	Positive	Positive	
Color (10 pts.)	CL	Colorless	Colorless	

Total Points Assigned for Sample 4: 0