

ESTABLISHMENT OF QUALITY CONTROL LIMIT

Panel Producer : PT SUMBER MAS INDAH PLYWOOD
 Composite Wood Product : Hardwood Plywood Veneer Core 3 ply & 5 ply up
 Product Type : HWPW – VC Urea Formaldehyde 0.05 ppm

Sample No.	Quality Control test result	Compliance Test
	ASTM D 5582 : 2000 (µg/mL) Y-axis	ASTM D 6007 : 2014 (ppm) X-axis
1.	0.105	0.010
2.	0.163	0.020
3.	0.173	0.030
4.	0.188	0.030
5.	0.207	0.030

QCL Equation: $Y \text{ (ASTM D 5582:2000)} = 4.012 \times \text{ (ASTM D 6007:2014)} + 0.0709$

$$\text{ASTM D 6007:2014} = \frac{Y \text{ (ASTM D 5582:2000)} - 0.0709}{4.012}$$

Applicable emission standard for HWPW = 0.05 ppm

QCL (ASTM D 5582:2000) = **0.271 µg/mL**

Jakarta, November 28th, 2017

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 MUTU CERTIFICATION Approval,



Didik Heru Untoro
 Executive Director

ESTABLISHMENT OF CORRELATION

Panel Producer : PT SUMBER MAS INDAH PLYWOOD
 Composite Wood Product : Hardwood Plywood Veneer Core 3 ply & 5 ply up
 Product Type : HWPW – VC Urea Formaldehyde 0.05 ppm

Correlation Test Result for Urea Glue Type			
Sample No.	Quality Control test result	Compliance Test	Correlated to Small Chamber Value (ppm)
	ASTM D 5582 : 2000 (µg/mL)	ASTM D 6007 : 2014 (ppm)	
1	0.105	0.010	0.492
2	0.163	0.020	0.726
3	0.173	0.030	0.765
4	0.188	0.030	0.824
5	0.207	0.030	0.901
Quality Control test Method : Desiccators Method (ASTM D 5582 : 2000)			
Linier Regression Equation : $Y \text{ (ASTM D 5582:2000)} = 4.012 \times \text{ (ASTM D 6007:2014)} + 0.0709$			
$\text{ASTM D 6007:2014} = \frac{Y \text{ (ASTM D 5582:2000)} - 0.0709}{4.012}$			
Correlation Value: 0.931			
Correlation Value Standard: 0.878			

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SECONDARY METHOD COMPLIANCE TEST

Panel Producer : PT SUMBER MAS INDAH PLYWOOD
 Composite Wood Product : Hardwood Plywood (Veneer Core)
 Product Type : Urea Formaldehyde Resin 0.05 ppm

Qualifying Test Results 3 Ply	
Test Method	ASTM D 6007 - 14
Compliance Test Result (ppm)	0.03

Panel Producer : PT SUMBER MAS INDAH PLYWOOD
 Composite Wood Product : Hardwood Plywood (Veneer Core)
 Product Type : Urea Formaldehyde Resin 0.05 ppm

Qualifying Test Results 5 Ply	
Test Method	ASTM D 6007 - 14
Compliance Test Result (ppm)	0.01

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ESTABLISHMENT OF QUALITY CONTROL LIMIT

Panel Producer : PT SUMBER MAS INDAH PLYWOOD
 Composite Wood Product : Hardwood Plywood Veneer Core 3 ply & 5 ply up
 Product Type : HWPW – VC Phenol Formaldehyde 0.05 ppm

Sample No.	Quality Control test result	Compliance Test
	ASTM D 5582 : 2000 (µg/mL) Y-axis	ASTM D 6007 : 2014 (ppm) X-axis
1.	0.144	0.020
2.	0.159	0.020
3.	0.163	0.020
4.	0.173	0.020
5.	0.212	0.030
QCL Equation: $Y \text{ (ASTM D 5582:2000)} = 5.20 \times \text{ (ASTM D 6007:2014)} + 0.0558$ $\text{ASTM D 6007:2014} = \frac{Y \text{ (ASTM D 5582:2000)} - 0.0558}{5.20}$		
Applicable emission standard for HWPW = 0.05 ppm		
QCL (ASTM D 5582:2000) = 0.315 (µg/mL)		

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 Executive Director

ESTABLISHMENT OF CORRELATION

Panel Producer : PT SUMBER MAS INDAH PLYWOOD
 Composite Wood Product : Hardwood Plywood Veneer Core 3 ply & 5 ply up
 Product Type : HWPW – VC Phenol Formaldehyde 0.05 ppm

Correlation Test Result for Phenol Glue Type			
Sample No.	Quality Control test result ASTM D 5582 : 2000 (µg/mL)	Compliance Test ASTM D 6007 : 2014 (ppm)	Correlated to Small Chamber Value (ppm)
1	0.144	0.020	0.017
2	0.159	0.020	0.020
3	0.163	0.020	0.021
4	0.173	0.020	0.023
5	0.212	0.030	0.030
Quality Control test Method : Desiccators Method (ASTM D 5582 : 2000)			
Linier Regression Equation : $Y \text{ (ASTM D 5582:2000)} = 5.20 \times \text{ (ASTM D 6007:2014)} + 0.0558$			
$\text{ASTM D 6007:2014} = \frac{Y \text{ (ASTM D 5582:2000)} - 0.0558}{5.20}$			
Correlation Value: 0.911			
Correlation Value Standard: 0.878			

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 Executive Director