

ERRATA

Page	Position	Wrong	Correct																																									
10	Table 3 (Replace with this.)	Table 3. Samples																																										
		<table><tr><th rowspan="2">Classifi- cation</th><th rowspan="2">Test items</th><th rowspan="2">Obervation items</th><th colspan="3">Classification of samples</th></tr><tr><th>Form</th><th>Setting method</th><th>Quality level</th></tr><tr><td rowspan="3">Clear</td><td>Appearance of paint film</td><td>Gloss·transpar- ency</td><td>Paint sample or paint film sample</td><td rowspan="3">Agreement sample or manufac- turer's sample</td><td>Standard sample</td></tr><tr><td>Accelerated weather resistance</td><td>Change in gloss and the degree of transparency loss and dis- coloration</td><td>Paint sample</td><td>Boundary sample</td></tr><tr><td>Weather resistance</td><td>Change in gloss and the degree of transparency loss and dis- coloration</td><td>Paint sample</td><td>Boundary sample</td></tr><tr><td rowspan="4">Enamel</td><td>Appearance of paint film</td><td>Color·gloss</td><td>Paint sample or paint film sample</td><td rowspan="4">Agreement sample or manufac- turer's sample</td><td>Standard sample</td></tr><tr><td>Bleeding</td><td>Bleeding</td><td>Paint sample</td><td>Boundary sample</td></tr><tr><td>Accelerated weather resistance</td><td>Change in color</td><td>Paint sample</td><td>Boundary sample</td></tr><tr><td>Weather resistance</td><td>Change in color and gloss</td><td>Paint sample</td><td>Boundary sample</td></tr></table>	Classifi- cation	Test items	Obervation items	Classification of samples			Form	Setting method	Quality level	Clear	Appearance of paint film	Gloss·transpar- ency	Paint sample or paint film sample	Agreement sample or manufac- turer's sample	Standard sample	Accelerated weather resistance	Change in gloss and the degree of transparency loss and dis- coloration	Paint sample	Boundary sample	Weather resistance	Change in gloss and the degree of transparency loss and dis- coloration	Paint sample	Boundary sample	Enamel	Appearance of paint film	Color·gloss	Paint sample or paint film sample	Agreement sample or manufac- turer's sample	Standard sample	Bleeding	Bleeding	Paint sample	Boundary sample	Accelerated weather resistance	Change in color	Paint sample	Boundary sample	Weather resistance	Change in color and gloss	Paint sample	Boundary sample	
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13	line 2, 5.14.1	plate (150 mm x 70 mm x 0.8 mm) specified in JIS K 5400, ...	plate (150 mm x 70 mm x 0.8 mm) specified in JIS K 5410, ...																																									
15	line 2, 5.18.1	steel plate (150 mm x 70 mm x 0.8 mm) specified in JIS K 5410, ...	steel plate (150 mm x 70 mm x 0.8 mm) (a) specified in JIS K 5410, ...																																									
16	Enamel, Class 3, White in Table 5	144h	96h																																									
25	Right end of 96h testing days line, 5.19 in Informative reference Table 1	(Clear: class 2, Enamel: class 2-type 2, white)	(Clear: class 2, Enamel: class 2-type 2, white · class 3, white)																																									
25	Right end of 144h testing days line, 5.19 in Informative reference Table 1	(Enamel: class 1, white · class 3, white)	(Enamel: class 1, white)																																									

Remarks: This errata is for correcting the first edition of this Standard.

Japanese Standards Association

JIS

JAPANESE INDUSTRIAL STANDARD

Aminoalkyd resin paint

Ⓔ **JIS K 5651**—1992

Translated and Published

by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.



JAPANESE INDUSTRIAL STANDARD

J I S

Aminoalkyd resin paint

K 5651-1992

1. Scope This Japanese Industrial Standard specifies the aminoalkyd resin paint.

Remarks 1. The aminoalkyd resin paint specified in this Standard includes alkylated amino resin and alkyd resin for paint film forming ingredients, and it has a property to form a paint film mainly composed of the co-condensate of both resins by heating after application. The aminoalkyd resin paint shall be divided into two classes of Clear and Enamel.

(1) Clear shall be a transparent liquid paint mainly composed of alkylated amino resin, alkyd resin and the solvent.

(2) Enamel shall be opaque liquid paint produced by mixing the clear and the pigment.

2. The following standards are cited in this Standard.

JIS K 5400 Testing methods for paints

JIS K 5407 Testing methods for paint components

JIS K 5410 Panels for testing paints

JIS K 5500 Glossary of paint terms

JIS K 5582 Vinyl chloride resin enamel

JIS K 5628 Red-lead zinc chromate anticorrosive paint

JIS R 6253 Waterproof abrasive papers

JIS S 6026 Crayons and oil pastels

3. The terms used in this Standard shall comply with JIS K 5500.

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2. Classification The classification shall be in accordance with the requirements in Table 1.

Table 1. Classification

Classification		Use
Clear	Class 1	This shall be used for the finishing coating of aminoalkyd resin enamel class 1.
	Class 2	This shall be used for the finishing coating of aminoalkyd resin enamel class 2.
Enamel	Class 1	This shall be used for the overcoating of the baking finish, laying stress on weather resistance.
	Class 2, type 1	This shall be used for the overcoating when the low temperature baking finish is required.
	Class 2, type 2	This shall be used for the overcoating of general baking finish.
	Class 3	This shall be used for the overcoating of the baking finish, laying stress on anticorrosiveness.

3. Quality The quality of the aminoalkyd resin paint shall comply with the requirements specified in Table 2 when it is subjected to the tests specified in 5.

Table 2. Quality

Item	Class				
	Clear		Enamel		
	Class 1	Class 2	Class 1	Class 2, type 1	Class 2, type 2
Condition in container	-	-	When stirred, it shall become homogeneous free from hard lump.		
Transparency	To be transparent.		-	-	-
Color standards (Gardner)	11 or less		-	-	-
Application properties	Not difficult in coating works.				
Drying by heating	140±10°C	130±10°C	140±10°C	110±10°C	130±10°C
	25 ± 5 min				
Appearance and color of paint film	The appearance of the paint film shall be normal.				
Light resistance (Mercury lamp type)	-	-	-	Degree of discoloration shall not be large.	
Specular gloss ⁽¹⁾ (60°)	-	-	90 or more		
Overcoatability	Not difficult in overcoating.				
Bleeding ⁽²⁾	-	-	No bleeding shall be found (the test shall be exempted for white color.). When bleeding is accepted according to designation of the color, the bleeding shall not be large compared with the evaluation sample.		

Table 2 (Continued)

Item	Class				
	Clear		Enamel		
	Class 1	Class 2	Class 1	Class 2, type 1	Class 2, type 2
Adhesion (Checkers tape method)	The assessment shall be 8 points or more.				
Impact resistance (Du Pont method)	Specular gloss (70 or more)	No cracks or peeling-off shall be found by the deformation even when it is impacted by the weight of 500 g from the height of 40 cm.			
	Specular gloss (70 or less)	-	No cracks or peeling-off shall be found by the deformation even when it is impacted by the weight of 500 g from the height of 30 cm.		
Pencil scratch value (Testing machine method)	To be HB or harder	To be F or harder	To be HB or harder	To be F or harder	To be HB or harder
Flexibility	To withstand the bending around the mandrel of 3 mm in diameter.				
Overheat baking resistance	To withstand the bending around the mandrel of 10 mm in diameter.		To withstand the bending around the mandrel of 10 mm in diameter. The color difference shall be 2 or less and the gloss retention shall be 90 % or more.		
Water resistance	-	No abnormality shall be found when immersed in water for 24 h.	No abnormality shall be found when immersed in water for 48 h.	No abnormality shall be found when immersed in water for 24 h.	No abnormality shall be found when immersed in water for 72 h.

Table 2 (Continued)

Item	Class					
	Clear		Enamel			
	Class 1	Class 2	Class 1	Class 2, type 1	Class 2, type 2	Class 3
Alkali resistance	No abnormality shall be found when immersed in sodium carbonate solution for the specified time.					
	White and Clear					
	120 h	96 h	144 h	72 h	96 h	96 h
Other colors	-	-	No abnormality shall be found when immersed in sodium carbonate solution for the specified time.			
			72 h	24 h	48 h	72 h
Acid resistance	No abnormality shall be found when immersed in sulfuric acid solution for the specified time.					
Humidity resistance (Rotation type)	No abnormality shall be found when tested for 72 h.		No abnormality shall be found when tested for 72 h.	No abnormality shall be found when tested for 24 h.	No abnormality shall be found when tested for 96 h.	
Fouling resistance (Comparison with the original method)	-	The color and the gloss shall not be changed much, and swell shall not be found.	-	The color and the gloss shall not be changed much, and swell shall not be found.		

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Table 2 (Continued)

Item	Class					
	Clear		Enamel			
	Class 1	Class 2	Class 1	Class 2, type 1	Class 2, type 2	Class 3
Gasoline resistance	No abnormality shall be found when immersed in gasoline (No. 1) for test for 24 h.		No abnormality shall be found when immersed in gasoline (No. 2) for test for 24 h.			
Salt water spraying resistance	No abnormality shall be found when tested for 48 h.		No abnormality shall be found when tested for 72 h.	No abnormality shall be found when tested for 48 h.	No abnormality shall be found when tested for 72 h.	No abnormality shall be found when tested for 96 h.
			60 or more			
Heating loss %	White	Method A	-			
		Method B	-			
	Slightly colored	Method A	-			
		Method B	-			
Silver or other colors Transparent	Method A	50 or more	47 or more			
	Method B	30 or more	32 or more			
Heated storage stability		To be stable if stored at 50°C for 72 h.				