

**LITHIUM CELLS OR BATTERIES TEST SUMMARY
IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TEST AND CRITERIA**

BATTERY TRANSPORTATION INFORMATION

Name of cell, battery or product manufacturer, as applicable: Item Number : CR2025 Item Name : CR2025 Item Description : Lithium Metal Battery Cell		Cell, battery or product manufacturer's contact information to include address, phone number, email address and website for more information: Tohoku Murata Manufacturing Co., Ltd. 1-1 Shimosugishita, Takakura, Hiwada-machi, Koriyama-shi, Fukushima, 963-0531 Japan Phone: +81-24-955-7834 e-mail: tmm-unr-smry@murata.com Website: https://www.murata.com/en-global/group/tohokumurata	
Name of the test laboratory to include address, phone number, email address and website for more information: Tohoku Murata Manufacturing Co., Ltd. 1-1 Shimosugishita, Takakura, Hiwada-machi, Koriyama-shi, Fukushima, 963-0531 Japan Phone: +81-24-955-7834 e-mail: tmm-unr-smry@murata.com Website: https://www.murata.com/en-global/group/tohokumurata		A unique test report identification number: UN38.3-CR2025	Date of the test report: Jan 14,2022
Description of cell or battery to include at a minimum: Lithium ion or Lithium metal cell or battery; Mass; Watt-hour rating, or lithium content; Physical description of the cell/battery; and Model Cell/battery Type : Lithium Metal Cell or Battery : Cell LC or W/h rating : 0.05g Cell or Battery Weight : 2.6 g Physical description : Lithium Metal Battery Cell(Coin shaped)		List of tests conducted and results (i.e., pass/fail): Test T.1: Altitude Simulation : Pass Test T.2: Thermal Test : Pass Test T.3: Vibration : Pass Test T.4: Shock : Pass Test T.5: External short circuit : Pass Test T.6: Impact : Pass Test T.7: Overcharge : Not applicable Test T.8: Forced discharge : Pass Testing additional comments:	
Reference to assembled battery testing requirements, if applicable (i.e., 38.3.3;(f) and 38.3.3;(g): Not Applicable		Reference to the revised edition of the Manual of Test and Criteria used and to amendments thereto, if any: Revision 6 Amendment 1	
PRODUCT CLASSIFICATION FOR TRANSPORT (According to UN - DGP)			
UN Classification: UN3090		Proper Shipping Name: Lithium Metal Battery Cell	
Signature with name and title of signatory as an indication of the validity of information provided: Hideaki Takahashi Quality Assurance Department 		This document remains valid as long as no changes, modification, or additions are made to the model(s) described in this document, after being transported from a Tohoku Murata Manufacturing. The model(s) has (have) been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of the certification, The model(s) must be packed, labeled, and documented according to country and other international regulations for transportation.	
Date document was generated: Jan 14,2022			

Tohoku Murata Manufacturing Co., Ltd.

1-1 Shimosugishita, Takakura, Hiwada-machi,

Koriyama-shi, Fukushima 963-0531 JAPAN

Phone: +81 24 955 7834 / Fax: +81 24 958 5827

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リチウム電池認証書/Lithium cell or battery Certification

No: UN38.3-CR2025

Date: Jan 14, 2022

- 単電池/Cell (■シングルセル/Single cell □シングルセルバッテリー/Single cell battery)
□組電池/Battery(Pack) (セル構成/Composition of cell :)
- モデル名/Model Name: CR2025 Cell Type : CR2025 (muRata) (Made in Indonesia)
Murata Product Name CR2025
- 顧客名/Customer : Murata Manufacturing Co., Ltd.
- 国連勧告テスト結果/Test results of the UN Recommendations on the Transport of Dangerous Goods

国連勧告テスト及び判定基準 (38.3リチウム電池)		テスト結果/ Test results	備考/Remarks
NO	テスト項目Test item		
T1	高度シミュレーション (Altitude simulation)	OK	
T2	温度試験 (Thermal test)	OK	
T3	振動 (Vibration)	OK	
T4	衝撃 (Shock)	OK	
T5	外部短絡 (External short circuit)	OK	
T6	圧壊 (Crush)	OK	
T7	過充電 (Overcharge)	—	一次電池は対象外/Primary battery is not applied.
T8	強制放電 (Forced discharge)	OK	

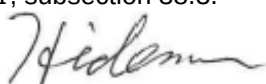
試験実施日/Tested Date(T1~T5, T6,T8): 2020/09/10 - 2020/10/09
梱包試験実施日/Tested Date for Package : 2015/12/17~2015/12/25

5. 定格/Rated

項目/Item	規格値/Specification	備考/Remarks
公称電圧/Nominal voltage	3.0V	
公称容量/Nominal capacity	160mAh	
総リチウム含有量/Aggregated lithium content	0.05g	

上記テスト結果は国連勧告試験 (UN Manual of Tests and Criteria 6th revised edition Amendment 1 , Part III, subsection 38.3)に従い確認した結果であることを証明いたします。

We, Tohoku Murata Manufacturing Co., Ltd., hereby certify that above results are confirmed in accordance with the Manual of Tests and Criteria of the UN Recommendations on the Transport of Dangerous Goods, 6th revised edition Amendment 1 , Part III, subsection 38.3.



Hideaki Takahashi
Quality Assurance Department
Tohoku Murata Manufacturing Co., Ltd.

国連勧告試験 結果 1

Test Result of UN Recommendations Part 1

機種名 / Murata Model Name		CR2025 (Made in Indonesia)						
試験場所 / Test Company		株式会社 東北村田製作所 郡山事業所						
住所 / Address		〒963-0531 福島県郡山市日和田町高倉下杉下1-1				電話 / Tel.	+81-24-958-3811	
試験室 / Test Room		安全性試験室 / 野外試験室			試験期間 / Test Dates		2020/09/10 - 2020/10/09	
判定基準 / Criterion		UN Manual of Tests and Criteria 6th revised edition Amendment 1, Part Ⅲ, sub-section 38.3						
試験名称 / Test Name		T1:高度シミュレーション試験 Altitude Simulation						
番号 No.	サンプル状態 Conditions	試験前 / Before		試験後 / After		質量減少率 / Mass Loss <0.2%以下>	OCV維持率 / Residual OCV 90%以上	現象 / Occurrence
		mass (g)	OCV (V)	mass (g)	OCV (V)			
1	未放電 / Undischarged	2.539	3.231	2.539	3.228	0.02	99.9	N
2		2.514	3.223	2.514	3.221	0.00	100.0	N
3		2.511	3.227	2.511	3.227	0.01	100.0	N
4		2.532	3.218	2.532	3.217	0.00	100.0	N
5		2.516	3.231	2.515	3.229	0.01	99.9	N
6		2.540	3.223	2.540	3.222	0.00	100.0	N
7		2.531	3.232	2.531	3.230	0.01	99.9	N
8		2.529	3.228	2.529	3.226	0.00	99.9	N
9		2.511	3.225	2.511	3.224	0.01	100.0	N
10		2.518	3.228	2.518	3.227	0.00	100.0	N
11	完全放電 / Fully discharged	2.530		2.530		0.00		N
12		2.544		2.544		0.00		N
13		2.528		2.527		0.00		N
14		2.544		2.544		0.00		N
15		2.542		2.542		0.00		N
16		2.501		2.501		0.00		N
17		2.529		2.529		0.01		N
18		2.535		2.535		0.01		N
19		2.534		2.533		0.01		N
20		2.534		2.534		0.00		N
試験名称 / Test Name		T2:温度試験 Thermal						
番号 No.	サンプル状態 Conditions	試験前 / Before		試験後 / After		質量減少率 / Mass Loss <0.2%以下>	OCV維持率 / Residual OCV 90%以上	現象 / Occurrence
		mass (g)	OCV (V)	mass (g)	OCV (V)			
1	未放電 / Undischarged	2.539	3.230	2.539	3.236	0.01	100.2	N
2		2.514	3.221	2.514	3.232	0.01	100.3	N
3		2.511	3.227	2.511	3.238	0.01	100.4	N
4		2.532	3.217	2.531	3.227	0.01	100.3	N
5		2.515	3.230	2.515	3.241	0.01	100.3	N
6		2.540	3.222	2.539	3.232	0.02	100.3	N
7		2.531	3.231	2.531	3.239	0.02	100.2	N
8		2.529	3.227	2.529	3.235	0.02	100.2	N
9		2.511	3.225	2.511	3.238	0.01	100.4	N
10		2.518	3.227	2.518	3.237	0.01	100.3	N
11	完全放電 / Fully discharged	2.530		2.529		0.01		N
12		2.544		2.544		0.02		N
13		2.528		2.527		0.02		N
14		2.544		2.543		0.02		N
15		2.542		2.541		0.02		N
16		2.501		2.501		0.01		N
17		2.529		2.529		0.01		N
18		2.535		2.535		0.02		N
19		2.533		2.533		0.02		N
20		2.534		2.533		0.02		N
質量減少率 / Mass Loss (%)		☐ 電池質量 < 1g: 0.5%以下 ■ 1g ≤ 電池質量 ≤ 75g: 0.2%以下 ☐ 75g < 電池質量 : 0.1%以下						
【現象 / Occurrence】		破断: R <Rupture> 発火: F <Fire> 破裂: D <Disassembly> 弁作動: V <Venting> 漏液: L <Leakage> 異常なし: N <No rupture, No fire, No disassembly, No venting, No leakage>						

国連勧告試験 結果 2
Test Result of UN Recommendations Part 2

試験名称 / Test Name		T3:振動試験 Vibration						
番号 No.	サンプル状態 Conditions	試験前 / Before		試験後 / After		質量減少率 / Mass Loss <0. 2%以下>	OCV維持率 / Residual OCV 90%以上	現象 / Occurrence
		mass (g)	OCV (V)	mass (g)	OCV (V)			
1	未放電 / Undischarged	2.539	3.236	2.539	3.238	0.00	100.0	N
2		2.514	3.232	2.514	3.233	0.00	100.0	N
3		2.511	3.238	2.511	3.240	0.00	100.0	N
4		2.531	3.227	2.531	3.228	0.00	100.0	N
5		2.515	3.241	2.515	3.242	-0.01	100.0	N
6		2.539	3.232	2.539	3.233	0.00	100.0	N
7		2.531	3.239	2.531	3.240	-0.01	100.0	N
8		2.529	3.235	2.529	3.236	-0.01	100.0	N
9		2.511	3.238	2.511	3.239	0.00	100.0	N
10		2.518	3.237	2.518	3.238	0.01	100.0	N
11	完全放電 / Fully discharged	2.529		2.529		0.00		N
12		2.544		2.544		0.00		N
13		2.527		2.527		-0.01		N
14		2.543		2.543		0.00		N
15		2.541		2.541		-0.01		N
16		2.501		2.501		0.01		N
17		2.529		2.529		-0.01		N
18		2.535		2.535		-0.01		N
19		2.533		2.533		0.00		N
20		2.533		2.533		-0.01		N
試験名称 / Test Name		T4:衝撃試験 Shock						
番号 No.	サンプル状態 Conditions	試験前 / Before		試験後 / After		質量減少率 / Mass Loss <0. 2%以下>	OCV維持率 / Residual OCV 90%以上	現象 / Occurrence
		mass (g)	OCV (V)	mass (g)	OCV (V)			
1	未放電 / Undischarged	2.539	3.238	2.538	3.239	0.01	100.0	N
2		2.514	3.232	2.514	3.234	0.00	100.0	N
3		2.511	3.239	2.511	3.241	0.00	100.0	N
4		2.531	3.228	2.531	3.229	0.00	100.0	N
5		2.515	3.242	2.515	3.243	0.01	100.0	N
6		2.539	3.232	2.539	3.234	0.00	100.1	N
7		2.531	3.241	2.531	3.241	0.00	100.0	N
8		2.529	3.237	2.529	3.238	0.00	100.0	N
9		2.511	3.238	2.511	3.240	0.00	100.0	N
10		2.518	3.238	2.518	3.239	-0.01	100.0	N
11	完全放電 / Fully discharged	2.529		2.529		0.00		N
12		2.544		2.544		0.00		N
13		2.527		2.527		0.00		N
14		2.543		2.543		0.00		N
15		2.541		2.541		0.01		N
16		2.501		2.501		-0.01		N
17		2.529		2.528		0.01		N
18		2.535		2.535		-0.01		N
19		2.533		2.533		-0.01		N
20		2.533		2.533		0.00		N
質量減少率 / Mass Loss (%)		☐ 電池質量 < 1g: 0.5%以下 ■ 1g ≤ 電池質量 ≤ 75g: 0.2%以下 ☐ 75g < 電池質量 : 0.1%以下						
【現象 / Occurrence】		破断: R <Rupture> 発火: F <Fire> 破裂: D <Disassembly> 弁作動: V <Venting> 漏液: L <Leakage> 異常なし: N <No rupture, No fire, No disassembly, No venting, No leakage>						

国連勧告試験 結果 3

Test Result of UN Recommendations Part 3

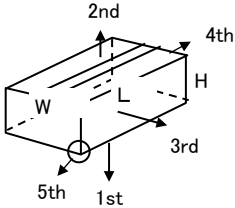
試験名称 / Test Name		T5:外部短絡試験 External Short Circuit	
番号 No.	サンプル状態 Conditions	最大表面温度 / Max. Surface Temperature 170℃≧	現象確認/ Occurrence
1	未放電 / Undischarged	63℃	N
2		62℃	N
3		63℃	N
4		64℃	N
5		61℃	N
6		62℃	N
7		62℃	N
8		62℃	N
9		62℃	N
10		60℃	N
11	完全放電 / Fully discharged	58℃	N
12		58℃	N
13		58℃	N
14		57℃	N
15		57℃	N
16		57℃	N
17		58℃	N
18		58℃	N
19		57℃	N
20		58℃	N
現象 / Occurrence		破断:R <Rupture> 発火:F <Fire> 破裂:D <Disassembly> 異常なし:N <No rupture, No fire, No disassembly>	

試験名称 / Test Name		T6: 圧壊試験 Crash	
番号 No.	サンプル状態 Conditions	最大表面温度 / Max. Surface Temperature 170℃≥	現象確認/ Occurrence
1	未放電 / Undischarged	170℃以下	N
2		170℃以下	N
3		170℃以下	N
4		170℃以下	N
5		170℃以下	N
6	完全放電 / Fully discharged	170℃以下	N
7		170℃以下	N
8		170℃以下	N
9		170℃以下	N
10		170℃以下	N

試験名称	T7: 過充電 Overcharge
対象外 / Not Applicable	

試験名称 / Test Name		T8: 強制放電 Forced Discharge	
番号 No.	サンプル状態 Conditions	現象確認/ Occurrence	
1	完全放電 / Fully discharged	N	
2		N	
3		N	
4		N	
5		N	
6		N	
7		N	
8		N	
9		N	
10		N	
【現象 / Occurrence】		発火: F <Fire> 破裂: D <Disassembly> 異常なし: N <No fire, No disassembly>	

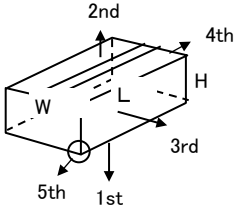
試験場所/ Test Company	株式会社 東北村田製作所/Tohoku Murata Manufacturing Co., Ltd.			
住所/ Address	〒963-0531 福島県郡山市日和田町高倉下杉下1-1 1-1, Shimosugishita, Takakura, Hiwada-machi, Koriyama Fukushima 963-0531 Japan		電話/ Tel	+81-24-958-3811
試験室/ Test Room	オクト産業(株)評価室/ Industrial Design OCTO	試験期間/ Test Dates	2015/12/17～2015/12/25	試験番号/ Test No AB – 1512 – 001
モデル名/ Model Name	CR2025		梱包入り数 /Quantity	700 pcs
セルタイプ/ Cell Type	CR2025	構成/ Configuration	単セル/ Single Cell	梱包製造地/ Package Location Indonesia
包装等級 / Packing Group	等級Ⅱ /Packing Group Number Ⅱ			
寸法・質量 / Dimensions and Gross Weight	長辺/Length (L)	短辺 /Wide (W)	高さ/Height (H)	質量 /Gross Weight (kg)
	342 mm	183 mm	151 mm	2.6 kg

落下試験/Drop Test			
試験設備/ Test equipment	DT-100B		
試験条件/ Test condition	落下高さ /Drop height	1 . 2 m	試験結果 /Occurrence
落下姿勢(方向) / Five (one for each drop) 	1回目の落下試験 The first drop test	底面を水平に/ flat on the bottom	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	2回目の落下試験 The second drop test	天面を水平に / Flat on the top	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	3回目の落下試験 The third drop test	長側面を水平に/ Flat on the long side	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	4回目の落下試験 The fourth drop test	短側面を水平に/ Flat on the short side	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	5回目の落下試験 The fifth drop test	コーナー (角) ※/ On a corner	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	※容器が最も破損を受ける方向を選択/Use the direction of carton which may have the most serious damage.		
判定基準/ Criterion	外装容器及び袋の場合、外装容器の最も外側の層に輸送中の安全を脅かすようないかなる破損が生じてはならない。/On the outmost layer of the exterior container or bag, there shall be no damage which shall badly affect safety during transportation.		判定/ Judgment 合格/OK

積み重ね試験/Stacking Test			
試験条件/ Test condition	No	試験結果 /Occurrence	
3mの想定段数算出/ Equivalent package number stacked up 3m	20段	1	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration
試験荷重値算出/ Examination load calculation value	57kg	2	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration
試験荷重値/Weight Load	155 kg	3	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration
判定基準/ Criterion	試供品は漏洩があってはならない。試供品は、輸送の安全性を損なうような劣化、又はその強度を減じたり、又は輸送物の積重ねを不安定にするような歪みが生じてはならない。No leakage, no deterioration which may affect badly safety transportation, no distortion which may cause unstable stacking.		判定/ Judgment 合格/OK

総合判定
合格/OK

試験場所/ Test Company	株式会社 東北村田製作所/Tohoku Murata Manufacturing Co., Ltd.			
住所/ Address	〒963-0531 福島県郡山市日和田町高倉下杉下1-1 1-1, Shimosugishita, Takakura, Hiwada-machi, Koriyama Fukushima 963-0531 Japan		電話/ Tel	+81-24-958-3811
試験室/ Test Room	オクト産業(株)評価室/ Industrial Design OCTO	試験期間/ Test Dates	2015/12/17～2015/12/25	試験番号/ Test No AB－1512－001
モデル名/ Model Name	CR2025		梱包入り数 /Quantity	1400 pcs
セルタイプ/ Cell Type	CR2025	構成/ Configuration	単セル/ Single Cell	梱包製造地/ Package Location Indonesia
包装等級 / Packing Group	等級Ⅱ /Packing Group Number Ⅱ			
寸法・質量 / Dimensions and Gross Weight	長辺/Length (L)	短辺 /Wide (W)	高さ/Height (H)	質量 /Gross Weight (kg)
	342 mm	183 mm	151 mm	4.8 kg

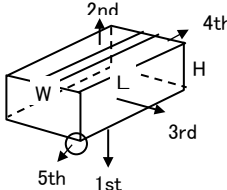
落下試験/Drop Test			
試験設備/ Test equipment	DT-100B		
試験条件/ Test condition	落下高さ /Drop height	1 . 2 m	試験結果 /Occurrence
落下姿勢(方向) / Five (one for each drop) 	1回目の落下試験 The first drop test	底面を水平に/ flat on the bottom	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	2回目の落下試験 The second drop test	天面を水平に / Flat on the top	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	3回目の落下試験 The third drop test	長側面を水平に/ Flat on the long side	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	4回目の落下試験 The fourth drop test	短側面を水平に/ Flat on the short side	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	5回目の落下試験 The fifth drop test	コーナー (角) ※/ On a corner	著しい破損なし/No Leakage, No damage liable to affect safety during transportation
	※容器が最も破損を受ける方向を選択/Use the direction of carton which may have the most serious damage.		
判定基準/ Criterion	外装容器及び袋の場合、外装容器の最も外側の層に輸送中の安全を脅かすようないかなる破損が生じてはならない。/On the outmost layer of the exterior container or bag, there shall be no damage which shall badly affect safety during transportation.		判定/ Judgment 合格/OK

積み重ね試験/Stacking Test			
試験条件/ Test condition	No	試験結果 /Occurrence	
3mの想定段数算出/ Equivalent package number stacked up 3m	20段	1	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration
試験荷重値算出/ Examination load calculation value	95kg	2	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration
試験荷重値/Weight Load	155 kg	3	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration
判定基準/ Criterion	試供品は漏洩があってはならない。試供品は、輸送の安全性を損なうような劣化、又はその強度を減じたり、又は輸送物の積重ねを不安定にするような歪みが生じてはならない。No leakage, no deterioration which may affect badly safety transportation, no distortion which may cause unstable stacking.		判定/ Judgment 合格/OK

総合判定
合格/OK

Test Result of UN Recommendations for Package

試験場所/ Test Company	株式会社 東北村田製作所/Tohoku Murata Manufacturing Co., Ltd.				
住所/ Address	〒963-0531 福島県郡山市日和田町高倉下杉下1-1 1-1, Shimosugishita, Takakura, Hiwada-machi, Koriyama Fukushima 963-0531 Japan			電話/ Tel	+81-24-958-3811
試験室/ Test Room	オクト産業(株)評価室/ Industrial Design OCTO	試験期間/ Test Dates	2015/01/14～2015/01/17	試験番号/ Test No	AB－1501－003
モデル名/ Model Name	CR2025		梱包入り数 /Quantity	4000 pcs	
セルタイプ/ Cell Type	CR2025	構成/ Configuration	単セル/ Single Cell	梱包製造地/ Package Location	Indonesia
包装等級 / Packing Group	等級Ⅱ /Packing Group Number Ⅱ				
寸法・質量 / Dimensions and Gross Weight	長辺/Length (L)	短辺 /Wide (W)	高さ/Height (H)	質量 /Gross Weight (kg)	
	356 mm	353 mm	170 mm	13.2 kg	

落下試験/Drop Test				
試験設備	DT-100B			
試験条件/ Test condition	落下高さ /Drop height	1 . 2 m	試験結果 /Occurrence	
落下姿勢(方向) / Five (one for each drop) 	1回目の落下試験 The first drop test	底面を水平に/ flat on the bottom	著しい破損なし/No Leakage, No damage liable to affect safety during transportation	
	2回目の落下試験 The second drop test	天面を水平に / flat on the top	著しい破損なし/No Leakage, No damage liable to affect safety during transportation	
	3回目の落下試験 The third drop test	長側面を水平に/ flat on the long side	著しい破損なし/No Leakage, No damage liable to affect safety during transportation	
	4回目の落下試験 The fourth drop test	短側面を水平に/ flat on the short side	著しい破損なし/No Leakage, No damage liable to affect safety during transportation	
	5回目の落下試験 The fifth drop test	コーナー (角) ※/ on a corner	著しい破損なし/No Leakage, No damage liable to affect safety during transportation	
	※容器が最も破損を受ける方向を選択/Use the direction of carton which may have the most serious damage.			
	判定基準/ Criterion	外装容器及び袋の場合、外装容器の最も外側の層に輸送中の安全を脅かすようないかなる破損が生じてはならない。/On the outmost layer of the exterior container or bag, there shall be no damage which shall badly affect safety during transportation.		判定/ Judgment

積み重ね試験/Stacking Test				
試験条件/ Test condition	No	試験結果 /Occurrence		
3mの想定段数算出/ Equivalent package number stacked up 3m	18段	1	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration	
試験荷重値算出/ Examination load calculation value	238kg	2	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration	
試験荷重値/Weight Load	240 kg	3	漏洩・破損・歪みなし/ No leakage, No distortion, No deterioration	
判定基準/ Criterion	試供品は漏洩があってはならない。試供品は、輸送の安全性を損なうような劣化、又はその強度を減じたり、又は輸送物の積重ねを不安定にするような歪みが生じてはならない。No leakage, no deterioration which may affect badly safety transportation, no distortion which may cause unstable stacking.		判定/ Judgment	合格/OK

総合判定
合格/OK