

JAPIA Standard Material Datasheet Overview

Purpose

This is the explanatory document for JAPIA Standard Material Datasheet (hereinafter JAPIA Sheet). The latest version of JAPIA Sheet and related documents can be downloaded from the sites shown below.

JAPIA Web Site (<https://www.japia.or.jp/>)

CEMA Web Site (<http://www.cema.or.jp/>)

JIVA Web Site (<http://www.jiva.or.jp/>)

July. 1, 2022

JAPIA Sheet Liaison Group

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I . Essential Information

The essential information of JAPIA Sheet is explained here.

1. About JAPIA Sheet

JAPIA Sheet is a form agreed in the JAPIA Sheet Liaison Group (See next page) including the Japan Automobile Parts Manufacturers Association (JAPIA) for the purpose of using it to investigate the materials and substances contained in products to comply with environmental regulations.

JAPIA Sheet has the features shown as below.

- The JAPIA Sheet is upward compatible with Ver. 2.01 or later of JAMA/JAPIA Standard Material Datasheet (hereinafter JAMA Sheet), which was used before JAPIA Sheet.
- JAPIA Sheet uses unique substance list different from JAMA Sheet.
- Similar to the JAMA Sheet, the basics of data creation follow IMDS.
Refer to the latest version of "JAPIA Standard Material Datasheet Operation Rules".
(See page 1 for the source)

2. Operation entity and scope of usage of supply chain

(1) Operation entity

Name:

JAPIA Sheet Liaison Group

Organizational structure:

Japan Auto Parts Industries Association

Participating companies of Japan Construction Equipment manufacturers Association

Participating companies of Japan Industrial Vehicles Association

Participating companies of Japan Agricultural Machinery Manufacturers Association

Role:

- Maintaining JAPIA Sheet (Maintain the substance investigation tools necessary for the management of substances in products of each company)
- Maintaining the uniformity of material investigation operations using JAPIA Sheet *1
(Maintain unified operation method that is indispensable for smooth material survey in the supply chain)

*1: It does not prevent the use of other material investigation tools (IMDS, chemSHERPA, CDX, etc.) already recognized by the industries of construction machinery/industrial vehicle/agricultural machinery based on the agreement between companies.

Nor does it preclude the use of non-inclusion declarations based on agreements between companies when it is difficult to use substance research tools.

However, JAPIA Sheet format, controlled substances (GADSL), and JAPIA Sheet operation rules must be operated.

(2) Scope of usage of supply chain

[Automotive Industry]

Within suppliers on the supply chain (Car manufacturers do not use)

[Industries of construction machinery/industrial vehicle/agricultural machinery]

1) Within each participated company*2

2) Within a subsidiary where each participating company has a majority stake (51% or more) or is strongly involved in management *2

3) Within suppliers on the supply chain of 1) and 2) above

*2 : Not only for business of construction machinery, industrial vehicles, agricultural machinery but also for all businesses of the company

3. System condition and operation environment

Microsoft Windows and MS-Excel are required to use JAPIA Sheet.

For the latest operating environment, refer to the JAPIA, CEMA, JIVA website and the latest version of the input manual.

4. Revision procedure and time schedule

In principle, the information is updated three times a year for the following purposes, but it is be notified you in advance.

Upgrade date	Data Input Form	External List	Closing of registration application by user
April 1st	(Not upgraded)	Reflecting GADSL update	End of December
July 1st	(Not upgraded)	Reflecting JIS update	End of March
October 1st	Addition of function	Reflecting GADSL update	End of June

If necessary, the revision time is reviewed.

The user uses the latest version in principle. However, because of the smooth changeover, provide a parallel operation period of about one month. The old and new versions can be distinguished by the date (YYMMDD) attached to the file name.

5. Password and available period

(1) Password

Data Input Form

- JAPIA shall disclose the password within JAPIA Sheet Liaison Group and JAPIA members limitedly
- Then they can disclose to the supplier individually along supply chain
- In case a non-JAPIA-member company in the automotive supply chain and its upper stream companies use JAPIA Sheet, the company at the starting point can inquire the JAPIA secretariat for the password

External List

JAPIA does not disclose the password because copyrighted materials are included.

(2) Available period

Data Input Form

In principle, valid for one month after issuing the next version.

External List

Be sure to use the latest specified external list.

(However, the old external list is valid for one month after the latest external list is issued.)

6. Operation Instruction

(1) Obtain Data Input Form and External List

- Download from JAPIA, CEMA, or JIVA Website (See page 1 for the source)
- Put the input form and external list in the same folder
(You cannot enter data or check errors, if not in the same folder.)

(2) Open and input data into Data Input Form

- Input data referring the manual
- Macro of Data Input Form must be valid
- Click [Row copy] for the copying the whole row
- Click [Row deletion] for deleting the whole low
- Click [Select] for selecting from the shown list

[Note] Substance listed in GADSL and included more than its threshold must be inputted.

(3) Check the inputted data

- Click [Data Check] for executing Error Check
- In case of OK as the result of Error Check, “No Error” will be shown
- Without resolving all errors, you cannot report to the requester.

[Note] Error check is to check the input format

Even if there is no error, the data content may be confirmed by the requester

(4) Submit datasheet to the requester

- Click [Export CSV] for creating CSV file and submit it

7. Data compatibilities with Old versions

(1) External List

Not compatible

Users must use the designated latest version of External List.

(See page 1 for the source)

Old version of External List cannot be used because error check and selective input do not work correctly with it.

(2) CSV File

Compatible

The JAPIA Sheet can import CSV files*

However some errors may occur because of the modification of materials and substances in the new external list. In case of errors, the data has to be corrected.

* : CSV file created by older version sheet (From Ver. 2.01 to Ver. 3.02b).

8. Copy right

The JAPIA Sheet Liaison Group holds the copyright for the JAPIA Sheet.

(Excerpt from JAPIA Sheet Input form)

<Notice>

You should note that the following actions are prohibited for all the relevant documents.

- You may not use those documents for any purposes other than the inter-firm exchange of information on substances of environmental concern contained in products.
- The relevant documents and programs are protected by laws and conventions on copyright and other intellectual property rights. You may not illegally apply any of those documents and programs.
- You may not distribute any of those documents and programs to a third party with whom you have not entered into a basic marketing agreement or other inter-firm contracts.

However, JAPIA owns the copyright for the substance list in the external list.

Ⅱ . Ver.4.02b Release Information

The overview of release information of JAPIA Sheet upgrade is explained here.

List of upgrade items from Ver.4.02a to Ver.4.02b

File	Upgrade item	Upgrade Content
Data Input Form	(Program)	<ul style="list-style-type: none"> ▪ If only the order of the substances in the standard materials is different, ID(material) is not automatically deleted. Reference P.15 [Reposting information as of Ver.4.02]
External File	Application Code	<ul style="list-style-type: none"> ▪ Corresponded to the IMDS change on 16 Aug. 2021 (2: abolished, 2: newly listed). Reference P.16 [Reposting information as of Ver.4.02]
	BSL	<p>[Appendix : BSL Changes_220701.pdf]</p> <ul style="list-style-type: none"> ▪ Added the proposed substances to BSL , Updated according to the 6,18,25th SVHC, etc. Reference P.1
	Material List	<ul style="list-style-type: none"> ▪ Reflection of revised JIS standards and Added VDA classification code to comply with IMDS001a (Semiconductor) and Change according to IMDS registration name. Reference P.17~26
External List Guide	Ⅲ. External List Abstract	<ul style="list-style-type: none"> ▪ Changed the contents of sheet “MAT”.
Input Manual	Q&A	Added terms of use for information collected on the JAPIA sheets
Substance List	No change	

About the order of substances in the standard materials

15/28

1) Background

[Reposting information as of Ver.4.02]

Even if it is the same material, many materials where (1) and (2) are different.

(1) Order of substances in material composition in JAPIA Sheet

(2) Order of substances in material composition in IMDS (published MDS)

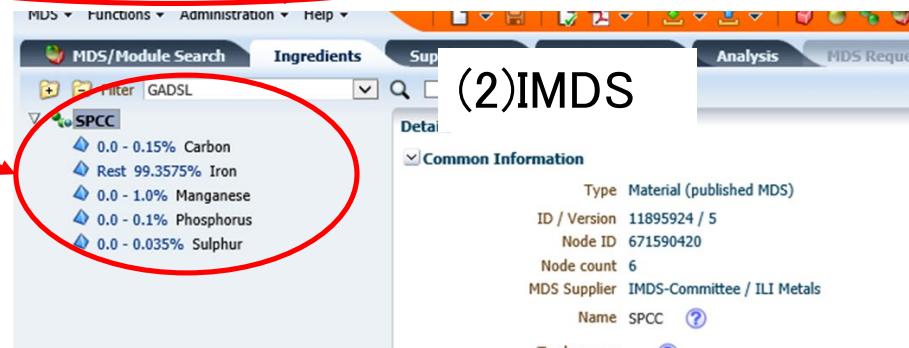
(1)JAPIA sheet

17			18	19	20			23	24	25	26	28	31	42	43	44	45	46	47	
			VDA			SUBSTANCE						JAPIA OPTIONS								
			Substance count	Chemical presence type	Substance code (CAS RN)	Substance name			Portion	Content post industrial recycling (Minimum)	Material e or vided trial ide	Substance portion (Minimum)	Substance portion (Maximum)	Substance portion (Rest)	ID (part)	ID (material)	ID (substance)	Inter		
			Select	Select																
ASCII characters			Number	Number ("1" or "2" or "3")	ASCII characters	ASCII characters			Number	Number	characters	Number	Number	"1"	ASCII characters	ASCII characters	ASCII characters	AS		
50			3	2	30	60			3	3	20	10	10	1	20	20	20			
0			0	0	0	0			0	4	4	0	0	0	0	0	0			
SPCC		1.1.1	1		7440-44-0	Carbon C			0.075			0	0.15			671590420	S00006			
SPCC		1.1.1	2		7439-96-5	Manganese Mn			0.5			0	1.0				S00025			
SPCC		1.1.1	3		7723-14-0	Phosphorus P			0.050			0	0.100				S00015			
SPCC		1.1.1	4		7704-34-9	Sulfur S			0.0175			0	0.035				S00016			
SPCC		1.1.1	5		7439-89-6	Iron Fe			99.3575					1			S00026			

(1) JAPIA sheet

Only the order of substances is different.

ID(material) is automatically deleted because it is determined to be different material by the data check in the JAPIA Sheet.



(2) IMDS

2) Outline of revisions in October 2021

If only the order of the substances is different, ID(material) is not automatically deleted because it is determined to be same material by the data check in the JAPIA Sheet.

Application Code Update [Reposting information as of Ver.4.02]

Update	ID	Application
	35	The lubricant / oil contains total PAHs >3% according to IP 346
	36	The lubricant / oil contains total PAHs <3% according to IP 346
	37	Extender oil contains PAHs > 10mg/kg (for tyres only)
	38	Extender oil contains PAHs < 10mg/kg (for tyres only)
	39	Non-tyre application
DEL	40	Not applicable
	41	PAH in lubricating oil
ADD	83	Repetitive skin contact (required according to REACH 1907/2006 EC Annex XVII Entry 50)
	84	Not applicable (no repetitive skin contact)

(1) Reflection of revised JIS standards

JIS Norm	Revision date	Explanation of the revision
JISG5502 (Spheroidal graphite cast irons)	Apr., 2022	Addition of Materials FCD350-22R, FCD400-18R, FCD550-5, FCD900-2, FCD450-18, FCD500-14, FCD600-10 Deletion of Materials FCD400-18A, FCD400-18AL, FCD400-15A, FCD500-7A, FCD600-3A
JISH4000 (Aluminium and aluminium alloy sheets, strips and plates)	Apr., 2022	Addition of Materials A3004A, A3204

(2) Change of the IMDS names

Regarding the IMDS name for the materials with the unique code (Norms/Standards column: JAMAXxxx), the ones that are out of the recommendation IMDS 001 have been changed to match IMDS 001.

<before>

Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Zinc alloy hot dip galvanizing	JAMAH4444	HDZN	3.3	HDZN
Aluminium alloy hot dip galvanizing	JAMAH4444	HDAL	2.1.1	HDAL
Passivation clear/yellow for Zn/Zn alloy plating	JAMAHCRF	JAMAHCRF-TR-ZNPL C/Y	7.3	JAMAHCRF-TR-ZNPL C/Y
Passivation black for Zn/Zn alloy plating	JAMAHCRF	JAMAHCRF-TR-ZNPL B	7.3	JAMAHCRF-TR-ZNPL B
Chromium-free Passivation for Zn/Zn alloy plating	JAMAHCRF	JAMAHCRF-FR-ZNPL	7.3	JAMAHCRF-FR-ZNPL
Chromate film for Zn Die castings	JAMAHC	JAMAHC-ZNDC	7.3	JAMAHC-ZNDC



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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Zinc alloy hot dip galvanizing	JAMAH4444	HDZN	3.3	Zinc alloy
Aluminium alloy hot dip galvanizing	JAMAH4444	HDAL	2.1.1	Aluminium alloy
Passivation clear/yellow for Zn/Zn alloy plating	JAMAHCRF	JAMAHCRF-TR-ZNPL C/Y	7.3	Chromate film clear
Passivation black for Zn/Zn alloy plating	JAMAHCRF	JAMAHCRF-TR-ZNPL B	7.3	Chromate film black
Chromium-free Passivation for Zn/Zn alloy plating	JAMAHCRF	JAMAHCRF-FR-ZNPL	7.3	Passivation (chromium free)
Chromate film for Zn Die castings	JAMAHC	JAMAHC-ZNDC	7.3	Chromate film (Cr6+)

Details of revisions on Material List(3/10)

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(2) Change of the IMDS names

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Trivalent Chromium Passivation for Zn Die castings	JMAHCRF	JMAHCRF- TR-ZNDC	7.3	JMAHCRF- TR-ZNDC
Chromium-free Passivation for Zn Die castings	JMAHCRF	JMAHCRF- FR-ZNDC	7.3	JMAHCRF- FR-ZNDC
Chromate film for Al/Al alloy	JMAHC	JMAHC-AL	7.3	JMAHC-AL
Trivalent Chromium Passivation for Al/Al alloy	JMAHCRF	JMAHCRF- TR-AL	7.3	JMAHCRF- TR-AL
Chromium-free Passivation for Al/Al alloy	JMAHCRF	JMAHCRF- FR-AL	7.3	JMAHCRF- FR-AL
Chromate film for Mg/Mg alloy	JMAHC	JMAHC-MG	7.3	JMAHC-MG
Trivalent Chromium Passivation for Mg/Mg alloy	JMAHCRF	JMAHCRF- TR-MG	7.3	JMAHCRF- TR-MG
Chromium-free Passivation for Mg/Mg alloy	JMAHCRF	JMAHCRF- FR-MG	7.3	JMAHCRF- FR-MG
Non electrolytically applied zinc flake coatings (Dacrotizing Non-Chromium Others)	JAMAH4444	FLZNNCOTHER	7.3	FLZNNCOTHER
GEOMET Coating	JAMAH4444	GMTNC	7.3	GMTNC
BONDE Coating (Oxalic)	JAMAH4444	OXALICBONDE	7.3	OXALICBONDE



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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Trivalent Chromium Passivation for Zn Die castings	JMAHCRF	JMAHCRF- TR-ZNDC	7.3	Chromate film (Cr3+)
Chromium-free Passivation for Zn Die castings	JMAHCRF	JMAHCRF- FR-ZNDC	7.3	Passivation (chromium free)
Chromate film for Al/Al alloy	JMAHC	JMAHC-AL	7.3	Chromate film (Cr6+)
Trivalent Chromium Passivation for Al/Al alloy	JMAHCRF	JMAHCRF- TR-AL	7.3	Chromate film (Cr3+)
Chromium-free Passivation for Al/Al alloy	JMAHCRF	JMAHCRF- FR-AL	7.3	Passivation (chromium free)
Chromate film for Mg/Mg alloy	JMAHC	JMAHC-MG	7.3	Chromate film (Cr6+)
Trivalent Chromium Passivation for Mg/Mg alloy	JMAHCRF	JMAHCRF- TR-MG	7.3	Chromate film (Cr3+)
Chromium-free Passivation for Mg/Mg alloy	JMAHCRF	JMAHCRF- FR-MG	7.3	Passivation (chromium free)
Non electrolytically applied zinc flake coatings (Dacrotizing Non-Chromium Others)	JAMAH4444	FLZNNCOTHER	7.3	Dacrotized coatings
GEOMET Coating	JAMAH4444	GMTNC	7.3	Geomet coatings
BONDE Coating (Oxalic)	JAMAH4444	OXALICBONDE	7.3	Oxalic acid coatings

Details of revisions on Material List(4/10)

(2) Change of the IMDS names

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
ZAY Coating	JAMAH4444	ZNALMG	3.3	ZNALMG
Corrosion protection of aluminium alloys ZR	JAMAH4444	ZR	7.3	ZR
Corrosion protection of aluminium alloys TI	JAMAH4444	TI	7.3	TI
Corrosion protection of aluminium alloys CO	JAMAH4444	CO	7.3	CO
Black Oxide Coatings	JAMAH4444	FE3O4	7.2	FE3O4
CrN Coatings	JAMAH4444	CRN	7.2	CRN
DLC Coatings	JAMAH4444	DLC	7.2	DLC
TiN Coatings	JAMAH4444	TIN	7.2	TIN
Coating (ceramics, glass)	JAMAH4444	COATING CERAMICS	7.2	COATING CERAMICS
Coating (Other compounds)	JAMAH4444	COATINGOTHER	7.3	COATINGOTHER
Supplied parts	JAMAA1111	SUPPLIED	7.3	SUPPLIED



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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
ZAY Coating	JAMAH4444	ZNALMG	3.3	Zn-Al-Mg coatings
Corrosion protection of aluminium alloys ZR	JAMAH4444	ZR	7.3	Corrosion protection of aluminium alloys Zr
Corrosion protection of aluminium alloys TI	JAMAH4444	TI	7.3	Corrosion protection of aluminium alloys Ti
Corrosion protection of aluminium alloys CO	JAMAH4444	CO	7.3	Corrosion protection of aluminium alloys Co
Black Oxide Coatings	JAMAH4444	FE3O4	7.2	Black Oxide Coatings
CrN Coatings	JAMAH4444	CRN	7.2	Chromium nitride coatings
DLC Coatings	JAMAH4444	DLC	7.2	Diamond like carbon
TiN Coatings	JAMAH4444	TIN	7.2	Titanium nitride coatings
Coating (ceramics, glass)	JAMAH4444	COATING CERAMICS	7.2	Coating ceramics
Coating (Other compounds)	JAMAH4444	COATINGOTHER	7.3	Coating other
Supplied parts	JAMAA1111	SUPPLIED	7.3	Supplied parts

Details of revisions on Material List(5/10)

(2) Change of the IMDS names

Remarks: Regarding Semi-conductors like Si/GaAs, 7.3 has also been added to VDA material classification code to comply with the recommendation IMDS 001a.

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Semiconductor	JAMAA4444	SEMICON	4.2	Semiconductor
Iron/Other Iron alloy (Unalloyed, low alloyed)	JAMAA4444	FE@	1.1.1	FE
Iron/Other Iron alloy (Highly alloyed)	JAMAA4444	FE@	1.1.2	FE
Iron/Other Iron alloy (Cast iron with lamellar graphite / tempered cast iron)	JAMAA4444	FE@	1.2.1	FE
Iron/Other Iron alloy (Cast iron with nodular graphite / vermicular cast iron)	JAMAA4444	FE@	1.2.2	FE
Iron/Other Iron alloy (Highly alloyed cast iron)	JAMAA4444	FE@	1.2.3	FE
Other Stainless Steel	JAMAA4444	SUS	1.1.2	SUS
Aluminium/Other Aluminium alloy (Cast aluminium alloys)	JAMAA4444	AL@	2.1.1	AL
Aluminium/Other Aluminium alloy (Wrought aluminium alloys)	JAMAA4444	AL@	2.1.2	AL
Magnesium/Other Magnesium alloy (Cast magnesium alloys)	JAMAA4444	MG@	2.2.1	MG
Magnesium/Other Magnesium alloy (Wrought magnesium alloys)	JAMAA4444	MG@	2.2.2	MG

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Semiconductor	JAMAA4444	SEMICON	4.2 or 7.3	Semi-conductors like Si/GaAs
Iron/Other Iron alloy (Unalloyed, low alloyed)	JAMAA4444	FE@	1.1.1	Iron alloy (Unalloyed, low alloyed)
Iron/Other Iron alloy (Highly alloyed)	JAMAA4444	FE@	1.1.2	Iron alloy (Highly alloyed)
Iron/Other Iron alloy (Cast iron with lamellar graphite / tempered cast iron)	JAMAA4444	FE@	1.2.1	Cast iron with lamellar graphite / tempered cast iron
Iron/Other Iron alloy (Cast iron with nodular graphite / vermicular cast iron)	JAMAA4444	FE@	1.2.2	Cast iron with nodular graphite / vermicular cast iron
Iron/Other Iron alloy (Highly alloyed cast iron)	JAMAA4444	FE@	1.2.3	Highly alloyed cast iron
Other Stainless Steel	JAMAA4444	SUS	1.1.2	Stainless Steel
Aluminium/Other Aluminium alloy (Cast aluminium alloys)	JAMAA4444	AL@	2.1.1	Cast aluminium alloy
Aluminium/Other Aluminium alloy (Wrought aluminium alloys)	JAMAA4444	AL@	2.1.2	Wrought aluminium alloy
Magnesium/Other Magnesium alloy (Cast magnesium alloys)	JAMAA4444	MG@	2.2.1	Cast magnesium alloy
Magnesium/Other Magnesium alloy (Wrought magnesium alloys)	JAMAA4444	MG@	2.2.2	Wrought magnesium alloy



Details of revisions on Material List(6/10)

(2) Change of the IMDS names

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Titanium/Other Titanium alloy	JAMAA4444	TI@	2.3	TI
Copper	JAMAA4444	CU	3.1	CU
Copper alloy	JAMAA4444	CU@	3.2	CU
Zinc/Other Zinc alloy	JAMAA4444	ZN@	3.3	ZN
Nickel/Other Nickel alloy	JAMAA4444	NI@	3.4	NI
Platinum/Platinum alloy	JAMAA4444	PT@	4.1	PT
Rhodium/Rhodium alloy	JAMAA4444	RH@	4.1	RH
Molybdenum/Molybdenum, alloy	JAMAA4444	MO@	4.2	MO
Cobalt/Cobalt alloy	JAMAA4444	CO@	4.2	CO
Gold/Gold alloy	JAMAA4444	AU@	4.2	AU
Silver/Silver alloy	JAMAA4444	AG@	4.2	AG



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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Titanium/Other Titanium alloy	JAMAA4444	TI@	2.3	Other Titanium alloy
Copper	JAMAA4444	CU	3.1	Copper
Copper alloy	JAMAA4444	CU@	3.2	Copper alloy
Zinc/Other Zinc alloy	JAMAA4444	ZN@	3.3	Zinc alloy
Nickel/Other Nickel alloy	JAMAA4444	NI@	3.4	Nickel alloy
Platinum/Platinum alloy	JAMAA4444	PT@	4.1	Platinum alloy
Rhodium/Rhodium alloy	JAMAA4444	RH@	4.1	Rhodium alloy
Molybdenum/Molybdenum, alloy	JAMAA4444	MO@	4.2	Molybdenum alloy
Cobalt/Cobalt alloy	JAMAA4444	CO@	4.2	Cobalt alloy
Gold/Gold alloy	JAMAA4444	AU@	4.2	Gold alloy
Silver/Silver alloy	JAMAA4444	AG@	4.2	Silver alloy

Details of revisions on Material List(7/10)

(2) Change of the IMDS names

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Palladium/Palladium alloy	JAMAA4444	PD@	4.2	PD
Iridium/Iridium alloy	JAMAA4444	IR@	4.2	IR
Tantalum/Tantalum alloy	JAMAA4444	TA@	4.2	TA
Tungsten/Tungsten alloy	JAMAA4444	W@	4.2	W
Tin/Other Tin alloy	JAMAA4444	SN@	4.2	SN
Lithium/Other Lithium alloy	JAMAA4444	LI@	4.2	LI
Mercury	JAMAA4444	HG	4.2	HG
Sintered Metal Materials (Iron materials)	JAMAA4444	SINTERFE	1.1	SINTERFE
Sintered Metal Materials (Stainless steels)	JAMAA4444	SINTERSUS	1.1	SINTERSUS
Sintered Metal Materials (Copper materials)	JAMAA4444	SINTERCU	3.2	SINTERCU
Magnet	JAMAA4444	MAGNET	4.2	MAGNET



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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Palladium/Palladium alloy	JAMAA4444	PD@	4.2	Palladium alloy
Iridium/Iridium alloy	JAMAA4444	IR@	4.2	Iridium alloy
Tantalum/Tantalum alloy	JAMAA4444	TA@	4.2	Tantalum alloy
Tungsten/Tungsten alloy	JAMAA4444	W@	4.2	Tungsten alloy
Tin/Other Tin alloy	JAMAA4444	SN@	4.2	Tin alloy
Lithium/Other Lithium alloy	JAMAA4444	LI@	4.2	Lithium alloy
Mercury	JAMAA4444	HG	4.2	Mercury
Sintered Metal Materials (Iron materials)	JAMAA4444	SINTERFE	1.1	Sintered Metal Materials (Iron materials)
Sintered Metal Materials (Stainless steels)	JAMAA4444	SINTERSUS	1.1	Sintered Metal Materials (Stainless steels)
Sintered Metal Materials (Copper materials)	JAMAA4444	SINTERCU	3.2	Sintered Metal Materials (Copper materials)
Magnet	JAMAA4444	MAGNET	4.2	Magnet

Details of revisions on Material List(8/10)

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(2) Change of the IMDS names

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Ferrite Magnet	JAMAA4444	MAGNET FERRITE	7.2	MAGNET FERRITE
Solder	JAMAA4444	SOLDER	4.2	SOLDER
Carbon	JAMAA4444	CARBON	7.3	CARBON
Wood	JAMAA4444	WOOD	7.1	WOOD
Pulp	JAMAA4444	PULP	7.1	PULP
Paper	JAMAA4444	PAPER	7.1	PAPER
Leather	JAMAA4444	LEATHER	7.1	LEATHER
Ceramics	JAMAA4444	CERAMICS	7.2	CERAMICS
Glass	JAMAA4444	GLASS	7.2	GLASS
Stone	JAMAA4444	STONE	7.2	STONE
Pad	JAMAA4444	PAD	7.3	PAD



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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Ferrite Magnet	JAMAA4444	MAGNET FERRITE	7.2	Ferrite Magnet
Solder	JAMAA4444	SOLDER	4.2	Solder
Carbon	JAMAA4444	CARBON	7.3	Carbon
Wood	JAMAA4444	WOOD	7.1	Wood
Pulp	JAMAA4444	PULP	7.1	Pulp
Paper	JAMAA4444	PAPER	7.1	Paper
Leather	JAMAA4444	LEATHER	7.1	Leather
Ceramics	JAMAA4444	CERAMICS	7.2	Ceramics
Glass	JAMAA4444	GLASS	7.2	Glass
Stone	JAMAA4444	STONE	7.2	Stone
Pad	JAMAA4444	PAD	7.3	Pad

Details of revisions on Material List(9/10)

(2) Change of the IMDS names

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Friction Materials	JAMAA4444	FRICM	7.3	FRICM
Flux	JAMAA4444	FLUX	7.3	FLUX
Pyrotechnic initiator	JAMAA4444	PRP	7.3	PRP
Grease	JAMAA4444	GREASE	9.2	GREASE
Lubricating Oil	JAMAA4444	LUBOIL	9.2	LUBOIL
Oil	JAMAA4444	OIL	9.2	OIL
Lubricants	JAMAA4444	LUBSOLID	9.2	LUBSOLID
Washing water	JAMAA4444	FLUID	9.6	FLUID
Battery Acids	JAMAA4444	BATTERY	9.6	BATTERY
Other Liquid	JAMAA4444	LIQUID	9.6	LIQUID
Refrigerant	JAMAA4444	REFRIGERANT	9.5	REFRIGERANT



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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Friction Materials	JAMAA4444	FRICM	7.3	Friction Materials
Flux	JAMAA4444	FLUX	7.3	Flux
Pyrotechnic initiator	JAMAA4444	PRP	7.3	Pyrotechnic initiator
Grease	JAMAA4444	GREASE	9.2	Grease
Lubricating Oil	JAMAA4444	LUBOIL	9.2	Lubricating Oil
Oil	JAMAA4444	OIL	9.2	Oil
Lubricants	JAMAA4444	LUBSOLID	9.2	Lubricants
Washing water	JAMAA4444	FLUID	9.6	Washing water
Battery Acids	JAMAA4444	BATTERY	9.6	Battery Acids
Other Liquid	JAMAA4444	LIQUID	9.6	Liquid
Refrigerant	JAMAA4444	REFRIGERANT	9.5	Refrigerant

Details of revisions on Material List(10/10)

(2) Change of the IMDS names

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Gas Xe	JAMAA4444	XE	9.8	XE
Gas Halogen	JAMAA4444	HALOGEN	9.8	HALOGEN
Gas He	JAMAA4444	HE	9.8	HE
Gas Kr	JAMAA4444	KR	9.8	KR

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Material Name	Norms/Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Gas Xe	JAMAA4444	XE	9.8	Gas Xe
Gas Halogen	JAMAA4444	HALOGEN	9.8	Gas Halogen
Gas He	JAMAA4444	HE	9.8	Gas He
Gas Kr	JAMAA4444	KR	9.8	Gas Kr



Material Name	Norms/Standards (Public standard)	Material Symbol	VDA Classification	IMDS Name
Lacquer CNR	JAMAH4444	CNR	6.1	CNR
Lacquer	JAMAH4444	LACQUER	6.1	LACQUER
Lining	JAMAH4444	LINING	6.1	LINING
Ink	JAMAA4444	INK	6.1	INK
Lacquer CNR	JAMAA4444	CNR	6.1	CNR
Adhesive CNR	JAMAA4444	CNR	6.2	CNR
Adhesive STARCH	JAMAA4444	STARCH	6.2	STARCH

Material Name	Norms/Standards (Public standard)	Material Symbol	VDA Classification	IMDS Name
Lacquer CNR	JAMAH4444	CNR	6.1	Lacquer CNR
Lacquer	JAMAH4444	LACQUER	6.1	Lacquer
Lining	JAMAH4444	LINING	6.1	Lining
Ink	JAMAA4444	INK	6.1	Ink
Lacquer CNR	JAMAA4444	CNR	6.1	Lacquer CNR
Adhesive CNR	JAMAA4444	CNR	6.2	Adhesive CNR
Adhesive STARCH	JAMAA4444	STARCH	6.2	Adhesive starch

List of documents of JAPIA Sheet Ver.4.02b (July. 1, 2022)

Document		File Name	
[O]Overview			
JAPIA Standard Material Datasheet Overview		EN	JapiaSheet_Overview_EN_220701.pdf
Appendix: BSL Changes		EN	Appendix: BSL Changes_220701.pdf
[2]Data Input Form			
JAPIA Sheet (Data Input Form)		EN	JapiaSheet_EN_211001.xlsm
[3]External File			
JAPIA Sheet (External List)		EN	EXLIST-2022-07-01EN.xlsx
External List Guide		EN	ExList_Guide_EN_220401.pdf
Appendix:External List Abstract		EN	ExList_Abstract_EN_220701.xlsx
[4]Manual			
Input Manual		EN	Input_Manual_EN_220701.pdf
JAPIA Sheet Input Sample		EN	JapiaSheet_Sample_EN_201001.xlsx
[5]Substance List			
GADSL Reference List		EN	GADSL Reference List 2022Ver.1.0.xlsx

History

Revision number	Revision date	Applicable Version	Description
N	Oct. 01, '20	4.01	Creation new
1	Jan. 11, '21	4.01a	Added information on Ver.4.01a Changed due to the abolition of VDA material classification code 1.2, 5.4, 5.5.1, 8.1 and 8.2 in IMDS Release 13.0.
2	Apr. 01, '21	4.01b	Addition of change points of the External list GADSL version changed from 2020-1.0 to 2021-1.0.
3	Jul. 01, '21	4.01c	Addition of change points of the External list
4	Oct. 01, '21	4.02	Changed the contents of "Data Input Form", "External File", "External List Guide" and "Input Manual".
5	Apr. 01, '22	4.02a	Addition of change points of the External list
6	July. 01, '22	4.02b	Addition of change points of the External list Addition of "Q & A" in the input manual