

What actually is ... IMDS?

The **IMDS (International Material Data System)** is an archiving and administrative system for the automobile industry on which basis all materials and proportionate material components are named for the respective component and all necessary data are recorded which are required for the later recycling of the vehicle part.

IMDS has been developed jointly by Audi, BMW, Daimler-Chrysler, Ford, Opel, Porsche, Volkswagen and Volvo.

Automobile manufacturers and suppliers are obliged by national and international laws, standards and regulations to submit data.

The following instructions support you in the correct preparation of the IMDS data sheet.

1. Purpose

These entry instructions serve as guide for the correct preparation of the IMDS material data sheet (MDS). This guide is provided to support our partners and suppliers in meeting all requirements of the automobile industry and specific requirements of our company.

A fast data exchange without problems is ensured when complying with this guide.

2. Preparation of a material data sheet (MDS)

Making available of IMDS data forms part of the first-article inspection.

The ID number of the material data sheet has to be indicated for the first-article inspection. In case that a supplier cannot make available IMDS data, he is obliged to note this in the supplementary sheet "Substances contained in purchased parts" and to make available comparable detailed data (weight portions, CAS numbers, ...) of the individual substances.

The IMDS system is a web-based data base. Registration and use of the International Material Data System and services associated with this system are free of charge. Just the normal internet charges will incur.

For further information on IMDS and its registration, please visit: www.mdsystem.com

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2.1 Structure of an MDS

The guidelines of the IMDS Committee contain information on the structuring of a material data sheet and on all other details required to prepare and send material data sheets.

These so-called IMDS recommendations are available to the user after logging in into the system under "Guidelines".

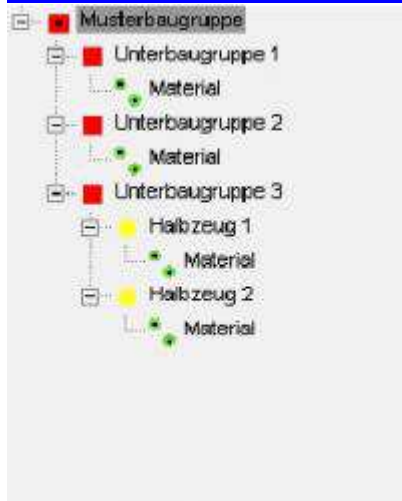
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On one level, there may only be identical symbols.

Correct:

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2.2 Creation of a component (red square)

A component consists of at least one semi-finished product (yellow circle) or one material (two green circles) or other components.

Please observe especially the following:

- If available, the materials indicated by the IMDS Committee should be used. Above all, this applies to standard metals.

Example for a correct designation of the components or semi-finished products:

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- The weight tolerance indicated should reflect reality and be the result of several measurements. The maximal tolerance for the weight data is 10%.
- If a component consists of one or several materials, the question "Does the material contain recycles" must be answered. If a recycle question is not answered forms a reason for rejection.
- If a component contains polymer materials, the question "Polymer materials marked" appears. It is mandatory to answer this question. An unanswered question or one answered with "No" results in a rejection of the MDS.

2.3 Creation of a semi-finished product (yellow circle)

A semi-finished products consists of at least one material or of other semi-finished products. Permissible tolerances depend on the portion of materials / semi-finished products of which the semi-finished product consists.

2.4 Creation of a material (two green circles)

A material consists of at least one pure substance or of other materials.

When creating a material, observe especially the following:

- When creating a material ensure to select the correct material classification right at the beginning.
- The material name and the trade name must not be the same.
- It is mandatory to adhere to the tolerances indicated for materials and pure substances.
- The sum of all pure material that have "confidentiality" status may be max. 10%.

3. Sending an MDS

As soon as a new recipient is "added" in the "Information recipient status" window, automatically the "Company data" window opens.



It is vital to properly fill in the following fields in the "Company data" window so that the MDS can be accepted.

- **"Part/Article No.:"** Enter the 9- or 11-digit (H93325510 / 15300048010) Voith article number here, without blank spaces, points or other special characters.
- Enter the **description in English / German**.
As geometrical data are of no significance in the IMDS, it is not necessary to indicate these.
- In case a drawing is available, fields **"Drawing No."**, **"Status/Date"** and **"Revision No."** have to be filled in.
- In case of a sampling, fields **"Sample Report No."** and **"Sample Report Date"** have to be filled in.
- **"Supplier No.:"** Enter the supplier number in this field.
- "Forwarding permitted": **"Yes"** must be ticked so that the MDS can be accepted.

When sending a data sheet, the data sheet shall not be 'released internally' beforehand by the MDS supplier. Release shall be given by the customer.

The MDS supplier is responsible for the correctness of the data indicated.

IMDS IDs for Voith are:

- 627 - Voith Turbo GmbH & Co KG
- 77546 - Drive Line Business Unit (Retarder&Dampers)
- 77547 - Bus Drive Systems Business Unit (NKW)

4. Updating an MDS

An MDS of a supplier has to be updated automatically without request as soon as one of the following changes occurs:

- **Change of weight:** The change of weight is no longer within the specified tolerances.

- **Change of materials:** It is vital to inform us about any change of material, and to discuss this with us, if necessary.
- **Change of law:** All substances that are not indicated by a 'wild card' must comply with the laws. No prohibited substances or substances that are subject to declaration may be behind a 'wild card'.

When updating an MDS, "Create new version" shall be used for copying the option.