



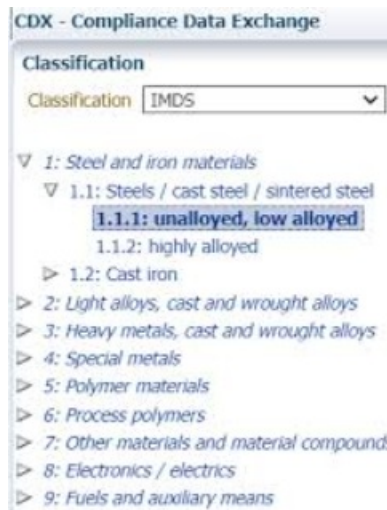
Danfoss 2024 Material Data Reporting – CDX User Guide

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Product Information

Specifications

- Product Name: CDX – Material Data Reporting
- Classification: Business
- Tool Objective: Assist in disclosing hazardous/critical substances in products
- Data Format: Material Datasheet (MDS) on Full Material Disclosure (FMD) Level

Product Usage Instructions

CDX – Registration

If you are new to CDX reporting, follow these steps to register your company:

1. Register your company on the CDX platform.
2. Verify your registration via email confirmation and activation link.
3. Complete your registration by activating your account on the CDX platform.

CDX – 1st Start

After registration, proceed with the following steps:

1. Visit the CDX login page and log in using your credentials.
2. Access the MDS View under Administration to manage material datasheets.
3. Check your MDS Request inbox for any requests received through the platform.

CDX – Answering a Request

To respond to a request from Danfoss, follow these steps:

1. Create a Material Datasheet (MDS) or assign an existing MDS to the request.
2. Submit the MDS to Danfoss either by searching for their account or responding to a request in CDX.

FAQ

- **What is a Material Datasheet (MDS)?**

A Material Datasheet on Full Material Disclosure (FMD) Level provides detailed information about the composition, concentration, and presence of specific substances in a product or component.

- **How can I search for MDS requests?**

To search for MDS requests, navigate to the Inbox > MDS Request section on the CDX platform and look for open requests.

Material Data Reporting – CDX
General guideline 2024



Guideline Overview

- Objectives and Key Points

- CDX – Registration
- CDX – 1st Start
- CDX – What is an MDS?
- CDX – Answering a Request
- How to – Create/ Search for a Material MDS
- How to – Create Component MDS
- How to – Assign Material/Component
- How to – Submit Data to Danfoss directly
- How to – Get Additional Support
- Useful tips

Objectives and Key Points

Danfoss Objectives

- Strengthen Danfoss compliance processes
- Effectively follow up on customer / regulatory requirements
- Support Danfoss ESG ambitions

Key Message

- Danfoss is accelerating at full speed on the transformation journey of sustainable technologies and solutions. Detailed knowledge of hazardous/critical substances in our products is imperative to achieve our goals. Tools for compliance data exchange have been designated to assist us in reaching this ambitious target.





Tools for Data reporting







- CDX – Go to Website is an abbreviation for Compliance Data Exchange system. It is a data exchange tool accessible as a portal, designed to satisfy latest regulatory requirements of various industries.
- IMDS – Go to Website is an abbreviation for International Material Data System, represents the automotive industry's compliance data exchange tool. Given that multiple Danfoss customers are Automotive OEMs, we currently facilitate reporting through IMDS as part of our commitment to compliance.




• Requested Data format

Material Datasheet (MDS) on Full Material Disclosure (FMD) Level is a comprehensive and detailed disclosure of all the materials used in a product or a component. It includes information about the composition, concentration, and presence of specific substances in a product.

▾  **O-ring NBR70 138x4**
 ▾  **6.1g NBR**

-  35.0 - 45.0% Carbon black
-  1.0 - 3.0% Zinc oxide
-  0.1 - 3.0% Thiram
-  40.0 - 50.0% 2-Propenenitrile, polymer with 1,3-butadiene
-  5.0 - 8.0% Further Additives, not to declare
-  0.1 - 3.0% Sulphur

CDX – Registration

- Go to – [CDX Login page](#) and click on 
- Fill all the mandatory fields in registration form
- After Registration, copy and save your credentials

Registration

- Register your company
- Terms of Use
- Privacy statement


CDX Credentials

Please copy your CDX credentials below and store them in a safe place. They will not be displayed again, so make sure you copy them correct.


User ID: ghd008
 Password: jhr206
 Company ID: 45285
 Company Name: TEST CASE

I understand an email will arrive shortly with a link. I must use to activate my new registration before I may login. I confirm I have recorded my credentials for logging into CDX after I activate my registration. Not complying to these requirements will render your registration deactivated and you will need to contact support.

OK

- You will receive an e-mail confirming your registration. Activation by clicking the link is required.
 Please click on the following link in your browser to activate your company in CDX:
https://www.cdssystem.com/cdx/faces/login?_af=reg&_af=en&_af=F2GqY14dxvYgdt97hr25TvjPm44bm9LqR
- You will be relocated to a CDX page, where you can finally Activate your account 
- Your registration is now completed and you can finally start using the CDX platform.

Login after registration

- Go to CDX login page at <https://www.cdssystem.com/cdx/faces/login> and login using your credentials 

Login

User ID:

Password:

Language: English

Login

Additional resources:

- CDX User Manual (cdssystem.com)
- Recorded registration instructions

CDX – 1st Start

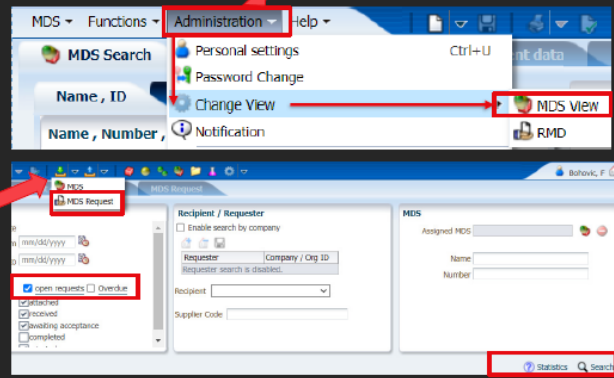
Login after registration

- As CDX is supporting various compliance areas (chemical compliance, Conflict Minerals,...), it is necessary to ensure that you use the correct 'system view'. For our needs, 'MDS View' is the correct option.

Administration > Change View > MDS View

MDS Request inbox

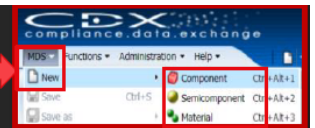
- If your company's CDX Account ID is already known to Danfoss, you might receive requests directly through the platform.
- To search for any potentially received requests, go to *Inbox > MDS Request* and search for *open requests*.



CDX – Answering a request

- You may receive a request from Danfoss through an e-mail or directly through CDX.
- In order to answer an MDS request, you are required to:

- Create a Material Datasheet (MDS) or Assign existing MDS to a request
 - Datasheets can be components, semicomponents or materials (see manual)
 - If needed, follow detailed process on how to create a component / material in CDX

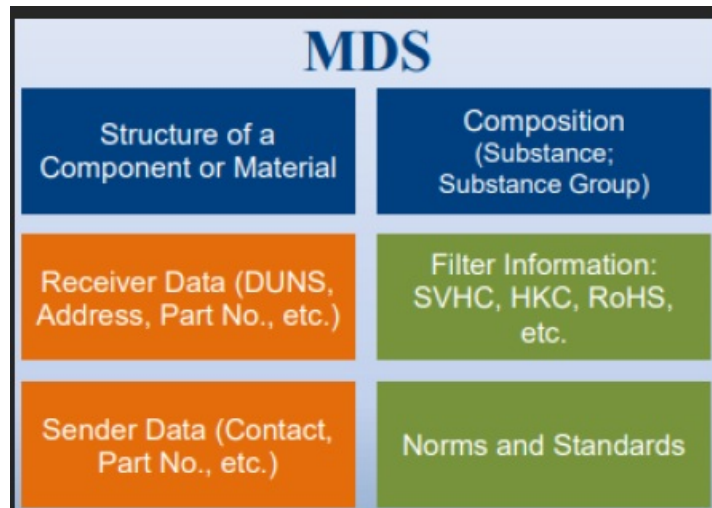


- Directly by searching for Danfoss account (based on which Danfoss segment you supply to) or
- By answering to a Danfoss MDS request received in CDX

CDX – WHAT IS AN MDS?




Material Datasheet (MDS)

- Can be thought of as a container consisting of various component and/or material related data.



- MDS Types

There are several MDS Types in CDX

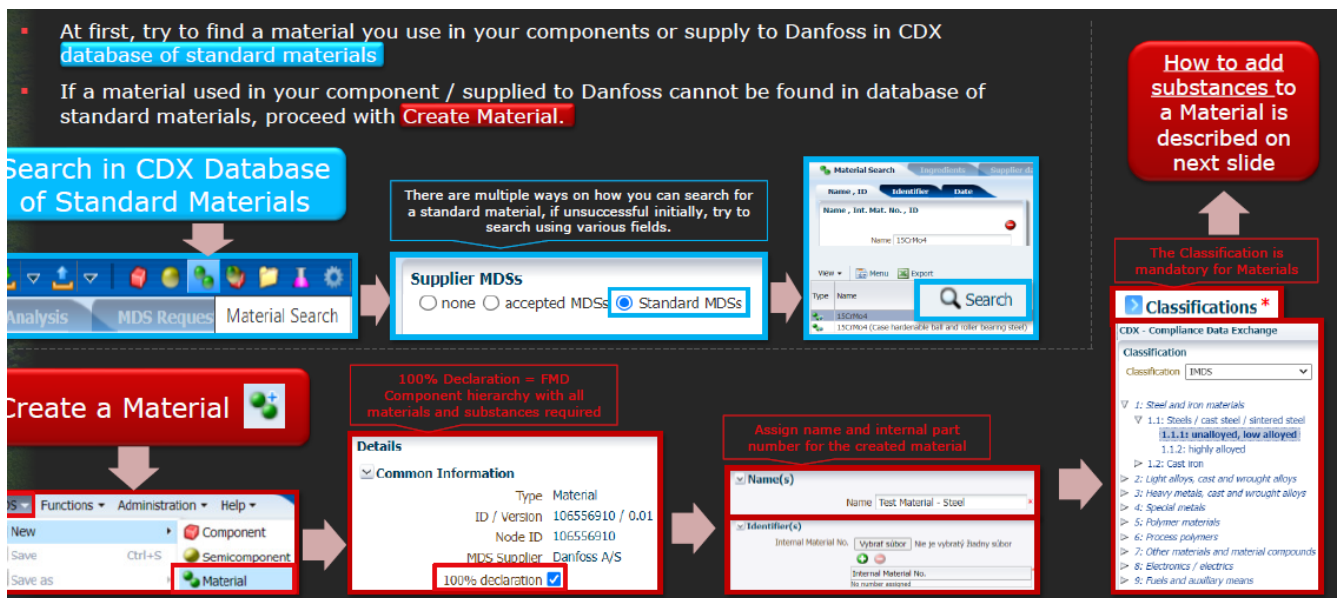
MDS Type	Description	Used in	Can have sub-MDS
Material 	Represents a homogeneous structure – meaning if you took a vertical slice through the product, you would not see layers	Materials Semicomponents Components	Material, Basic Substance
Semicomponent 	Similar to a Material, it represents a structure that will require further processing before it is assembled and given a final weight. Examples are a steel blank or a coated wire. Usage is by length, by volume, or by area.	Semicomponents, Components	Semicomponent, Material, Basic Substance
Component 	Used to represent an assembly Component that has a defined weight and is used in whole number quantities. Examples would be an engine block, a seat, etc. The weight of a Component MDS is defined at creation and cannot be reduced in the structure.	Components	Component, Semicomponent, Material, Basic Substance

More detailed information on MDS and other areas of CDX reporting is available in the user manual at: CDX User Manual (cdxsystem.com)

How to – Create/Search for a Material MDS

- A Material is the lowest level of MDS a user can create

- At first, try to find a material you use in your components or supply to Danfoss in CDX **database of standard materials**
- If a material used in your component / supplied to Danfoss cannot be found in database of standard materials, proceed with **Create Material**.



How to add substances to a Material is described on next slide
 The Classification is mandatory for Materials
Classifications *
 CDX - Compliance Data Exchange
 Classification: MDS
 ✓ 1: Steel and iron materials
 ✓ 1.1: Steels / cast steel / sintered steel
 1.1.1: unalloyed, low alloyed
 1.1.2: highly alloyed
 1.2: Cast iron
 2: Light alloys, cast and wrought alloys
 3: Heavy metals, cast and wrought alloys
 4: Special metals
 5: Polymer materials
 6: Process polymers
 7: Other materials and material compounds
 8: Electronics / electrics
 9: Fuels and auxiliary means

How to – Add Substance to a Material

- A Substance is a chemical element (e.g. Iron, Copper, etc.) or a compound (acrylic resin, zinc oxide).
- Basic Substances are defined by either a specific Chemical Abstract Number (CAS#) or generically by function.
- Substances in CDX can be:
 1. CAS-numbered Substance – Substance with a CAS# assigned to it, meaning it is a clearly defined Substance, example: Iron (CAS# 7439-89-6).
 2. Pseudo-Substance – A pseudo-substance gives an accurate description of the substance or the substance group but does not have a CAS# assigned to it, example: “Acrylic resin”. These substances are accepted as real substances.
 3. Joker or Wild card – These substances do not define a specific substance. There is a limited number of

wild cards available in the database and all have “system” in the CAS# field. An example is “Miscellaneous.” It is not allowed to use a Joker or Wild card in place of a substance that is declarable or prohibited (restricted) on Danfoss Negative List

How to Add Substance to a Material

Read more on Danfoss Negative List on our [Product Compliance Page](#)

There are multiple options on how you can describe content range

Make sure to perform system check and save your progress

Repeat the step of adding substances until you have 100% of the material weight covered

Enter the Name or CAS# and click search, then apply the substance

When you release your finalized material internally, you may use it repeatedly in any components.

How to – Create Component MDS

Component represents a final part for which weight cannot be changed It can be a:

- low-complexity part containing a simple material (steel screw)
- high-complexity part / product containing sub-components made of various materials (Controller)

Create a Component

Go to: MDS - New - Datasheet - COMPONENT

Add weight of the component Tolerance is not allowed

Next steps consists of assigning sub-components and/or materials to the component we have created

100% Declaration = FMD

Assign name and internal part number for the newly created Component

Now it is time to start assigning sub-components / materials Options are:

- To refer to datasets that were already created (either internally or by CDX (database of standard materials)
- To Create new datasheet directly through „Node“
- These steps are described in detail on the next slide

How to – Add Material/Component to a Component

This section describes how materials / sub-components can be assigned to a component

- We can add multiple materials and / or components to a component while in edit mode
- CDX system check can help us understand, which actions are required to finalize the MDS

Assigning Datasheets

You may refer to a Datasheet in your library or create a new one

Reference 1

Reference 2

Assigned Node (created)

When your component is ready for submission, proceed with „How to Submit Data to Danfoss“

After referencing a component, add quantity

If your component contains Sub-components/Materials, you may:

- add Reference to MDS received from your suppliers
- add Reference to your own MDS
- Create new MDS

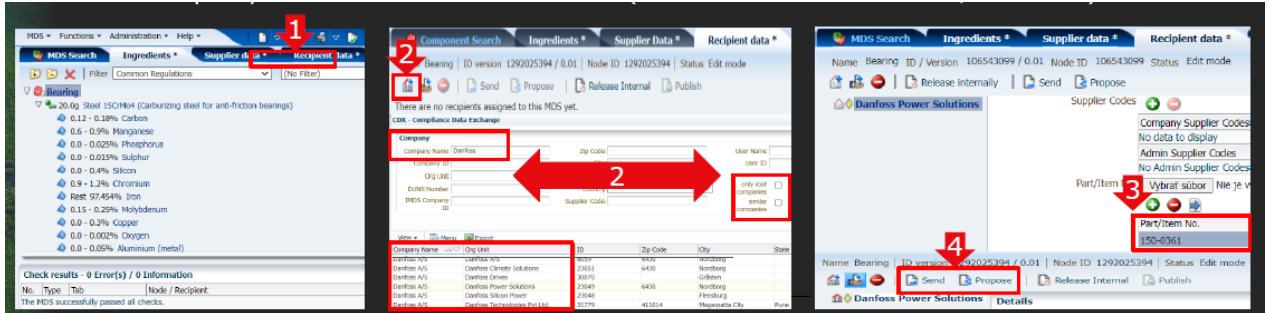
After referencing/creating a material, add weights to both material and component

If the Material you want to assign is not available in database of standard materials (or in your library), follow „Create a Material“ section.

How to – submit data to Danfoss

Direct Submission

- After successfully creating your component, you can submit to Danfoss for review:
 1. Go to recipient data while editing your component
 2. Add recipient based on which Danfoss organisation you supply to / unmark „only root companies“
 3. Add Danfoss Part Number – enter a code which Danfoss uses to identify your component / material
 4. Send or Propose your Datasheet to Danfoss for review (do not submit data to Danfoss A/S – ID 8059)



Additional Support

- Questions and Answers are categorized for easy reference

For more information

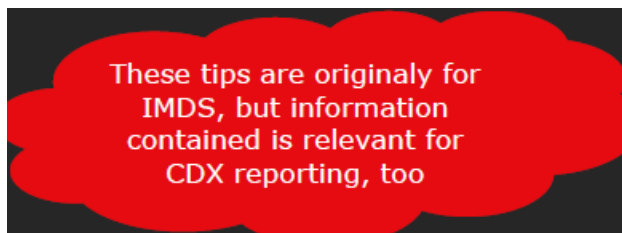
- Visit [CDX Login Webpage](#)
- Visit CDX – Material reporting section on [public.mdssystem.com](#)
- Visit [Supplier requirements & Product Compliance on Danfoss.com](#)
- Request support through [CDX Contacts](#)

Frequently Asked Questions

- What is CDX?
- Why do I need CDX?
- What is the benefit of using CDX for Responsible Minerals reporting?
- What is the benefit of using CDX if my suppliers are not registered in CDX?
- What is the benefit for my suppliers using CDX?
- How do I register in CDX?
- Once I register our company, when can I begin to use CDX?
- Who owns and has access to the CDX information?
- How do I respond to a customer request?

If more information/training is needed, please contact your responsible Danfoss buyer

- Tips to Create Material MDS
- Tips to Create Component MDS



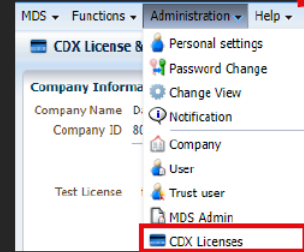
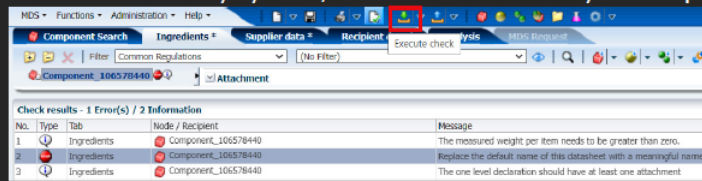
Useful Tips

- **CDX License**
 - After registration, users can create datasheets, evaluate owned MDSs against legislations and submit to customers
 - Data sheets for own components can also be imported from other formats (IMDS, IPC1752, IPC1754 or IEC62474)

- However, if you want to receive and review data sheets from your suppliers, CDX MDS License is required

CDX System check

- Any time when editing your datasheet, you may execute a system check to see if any system / structure errors affect your component



Confidential substances in CDX

Confidential

- If you have confidential substances (your know-how) in your materials, you may mark a specific substance „confidential“. Please be aware that substances marked as declarable/restricted in Danfoss Negative List cannot be designated as ‘confidential’.”
- Read more on Danfoss Negative List on our Product Compliance Page
- ENGINEERING TOMORROW

Documents / Resources



[Danfoss 2024 Material Data Reporting - CDX](#) [pdf] User Guide

2024, 2024 Material Data Reporting - CDX, Material Data Reporting - CDX, Data Reporting - CD X, Reporting - CDX

References

- [CDX Compliance Data Exchange - HOW TO REGISTER YOUR COMPANY](#)
- cdxsystem.com/cdx/faces/login
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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