

Demonstration

Clear Selection

Search Field

Sort by value

Check out all our apps and software tools

Bell: Notifications and settings

Enter user settings

Company Materials: Show General OR Specific By Type materials

NAVIGATION

- Company Materials
- General Materials
- Specific By Type
 - Metals
 - Plastics
 - Composites
 - Coatings
 - Compliance
- Regulations
- Substances
- Favourites
- My Materials
- Saved Searches
- Public Libraries
- Materials Portal Metals

Select multiple materials & compare all data OR export data as XML file

Compliance: Set up and edit Regulations & Substance

Favourites: Edit My Materials & Saved Searches

Filter by selection or input field

Find material Search by material name (e.g. X5CrNi18, PA66, ...), material number (e.g. 1.4301), material class (e.g. Aluminum), ...

Compare (2) selected Export selected materials ☐ Show only selected

Create Material Check Compliance

Saved Searches

Open Property dialogue

Reset properties

Archive material

Navigate through pages

	Name	Category	Density [g/cm³]	Remark	Material status	Actions
☐	★ AL-2024 a	Aluminum		Age hardenable AlCu-alloy.	APPROVED	
☒	★ AL-2117 preferred	Aluminum	2.74 - 2.75	Age hardenable AlCu-alloy.	APPROVED	
☒	★ 42CrMo4-QT I. 1.7225-QT	Steel		Quenched and tempered steel for high loaded machine parts. Material number according to EN 10083.	APPROVED	
☐	★ C45E-QT I	Steel	7.8	Non-alloy quenched and tempered steel	APPROVED	

Show 25 entries

Showing 1 to 6 of 6 entries

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Version unspecified

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Material Name

Source Standard

Back to search table

Tree structure for search

Transpose data table (by default activated)

Show source standard

Shows comparison between this material, derived and latest standard

Overwrites the "Link to Materials Portal" Property and all derived properties

Withdraws material and redirects to Public Libraries

Generates collective "Relevant Regulations" from substances

Compare Standards

Update to latest standard

Withdraw and derive now

Check Compliance

Materials / Metals / Non-Ferrous Wrought Materials / Copper wrought materials / Copper-tin alloys (tin bronze).(EN)

/ DIN EN 12164: 2000-09 (2) | CW458K (DIN EN 12164 : 2000-09)

DIN EN 12164: 2000-09 (2) | CW458K (DIN EN 12164 : 2000-09)

Basic Data Materials ☒ Transpose

Mat. designation	DIN EN 12164: 2000-09 (2)
MatID internal	00002
MatID external	DIN EN 12164: 2000- 00002
General material	General steel
Material number	CW458K (DIN EN 12164 : 2000-09)
Link MP - Standard Validity	Invalid
Link to Materials Portal	Show Material
Standard	DIN EN 12164 : 2000-09
Remark	Material CuSn5Pb1, mat. No. CW458K, is incomparable to a DIN-make. It is used in the form of bars.

Refresh data table if another user changed it recently

Export data table as.csv file

Show and Hide certain properties in this data table

Show and Hide data table

Switch to data table edit mode

- Create company internal materials

How to use

- Press the button above the search table

Create Material

Enter a general name to define this material as the preferred material for material groups.

All entries are collected in the collection Basic Data Materials.

External ID will be generated from Material Designation and Internal ID

Create New Metal Material

External ID* ⓘ

42CrMo4 00001

Auto-generated pattern: Material Designation (max 20 chars) + Internal ID. You can edit this field manually or use the Reset button to return to automatic generation.

Material Category* ⓘ

Steel ▼

General Material Name ⓘ

Nominal Size [mm] ⓘ

20

Form ⓘ

Sheet ▼

Remark ⓘ

Internal ID* ⓘ

00001

ID is auto-generated and cannot be edited.

Material Designation* ⓘ

42CrMo4

Material Number ⓘ

1.7225

Standard ⓘ

DIN EN ISO 683-7 : 2025-02

Condition ⓘ

Quenched and tempered ▼

Not changeable, configuration by your admin

necessary

Enter the material name here

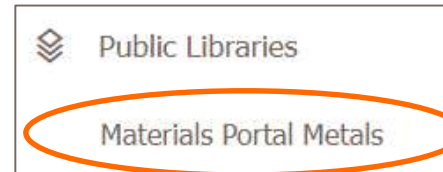
Cancel

Save

- Workflow:
- Derive material from public standards

- **How to use**

- Go to public libraries at the end of navigation
- Find your material by property filter or name



Property filter

Find metal standard: 42crmo4

Compare (0) selected | Export selected materials | ☐ Show only selected

Standard Status: Valid | Only default values set

☐	Name	Standard Status	Material Number (single)
☐	DIN EN ISO 683-2 : 2018-09 (1) 42CrMo4 1.7225	Valid	1.7225
☐	DIN EN 10250-3 : 2022-07 (1) 42CrMo4 1.7225	Valid	1.7225
☐	SEW 550 : 2024-12 (1) 42CrMo4 1.7225	Valid	1.7225
☐	DIN EN 10132 : 2022-03 (1) 42CrMo4 1.7225	Valid	1.7225
☐	DIN EN ISO 683-7 : 2025-02 (1) 42CrMo4 1.7225	Valid	1.7225
☐	DIN EN 10263-4 : 2018-02 (1)	Valid	1.7225

Show 25 entries | Showing 1 to 25 of 85 entries

Property Settings | Reset Properties

Search all properties

⊕ Date

⊕ Material Number (single)

⊕ Standard Status

Select a property

Mechanical Properties

No properties selected

Select a property

Physical Properties

- Open datasheet ->Derive button at top right

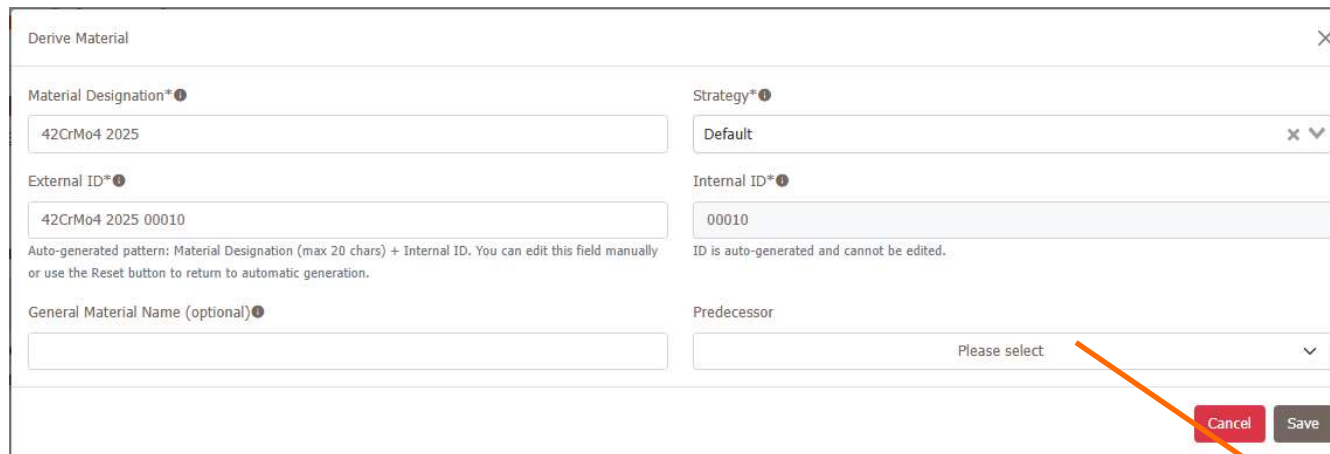


← **DIN EN ISO 683-7 : 2025-02 (1)**

[WIAM Materials](#) / [Steel](#) / [Bright steels](#) / [Bright steel products \(EN\)](#) / DIN EN ISO 683-7 : 2025-02 (1)

Derive this Material

- Fill dialogue fields



Derive Material

Material Designation* ⓘ
42CrMo4 2025

Strategy* ⓘ
Default

External ID* ⓘ
42CrMo4 2025 00010

Internal ID* ⓘ
00010

Auto-generated pattern: Material Designation (max 20 chars) + Internal ID. You can edit this field manually or use the Reset button to return to automatic generation.

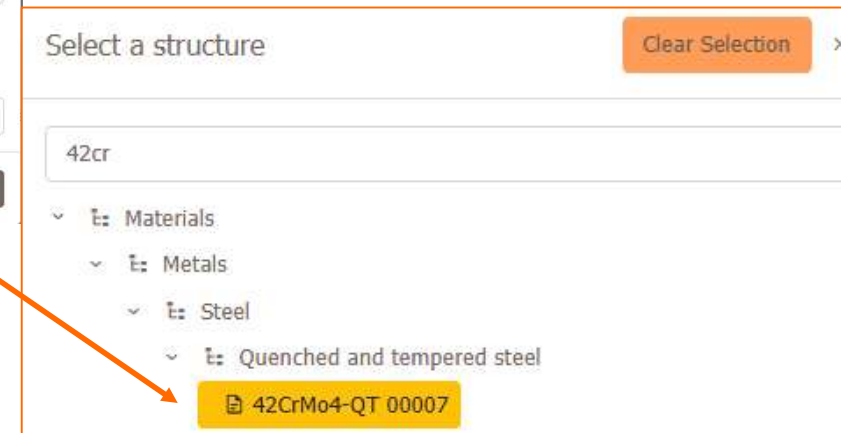
ID is auto-generated and cannot be edited.

General Material Name (optional) ⓘ

Predecessor
Please select

Cancel Save

- The predecessor can be selected from the existing company materials
- After clicking „Save“ the material can be found in the „Specific ByType“ category.



Select a structure

Clear Selection

42cr

Materials

Metals

Steel

Quenched and tempered steel

42CrMo4-QT 00007

- To check materials and the validity of their source standards you can use the „Check Validity“ button.

- This button checks all materials with

Materials status **APPROVED**

Link to Materials Portal

Link to Materials Portal

Show Material

- How to use

Find material Search by material name (e.g. 304L stainless steel), by material number (e.g. 1.4301)

Compare (0) selected Export selected materials ☐ Show only selected

Standard: DIN EN 10084 : 1998-...

☐	Name	Category	Standard	Condition	Semi-finished product	Thickness [mm]	Material status
☐	★ Replaced Standard 00011 Replaced Standard 1.7243 (DIN EN 10084 : 1998-06)	Steel	DIN EN 10084 : 1998-06				APPROVED
☐	★ 42CrMo4 2025 00010 42CrMo4 2025 1.7225 (DIN EN ISO 683-7 : 2025-02)	Steel	DIN EN ISO 683-7 : 2025-02				APPROVED

- PopUp appears with the result, click „Check Invalid“ to see all materials based on invalid standards

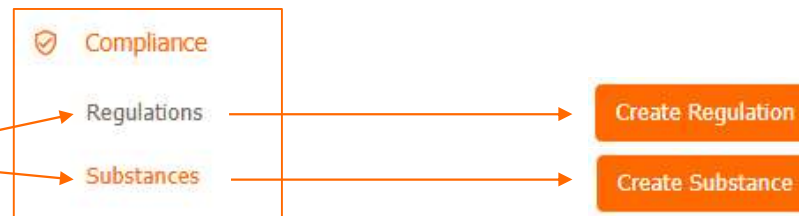
Validity Check result

025 Mat found in database
023 Mat with status APPROVED
003 Mat with status APPROVED linked to standard
✗ 001 Mat with status APPROVED linked to invalid (outdated) standard - please check!

- Workflows:
- 1. Create new substances or regulations
- 2. Decide about the compliance state of materials

• How to use

- Go to Compliance category
- Create substance or regulation



- While derive a substance composition will be added to materials, The substance table can also be added manually
- By pressing the „Check Compliance“ button, at the top of the datasheet, and the „Relevant Regulations“ will be added.

Check Compliance

- Here you can decide if the material is „Useable“ or „Forbidden“
- The button above the search table does the same for all materials

Substance Composition ☐ Transpose				
Substance	Substance name	Chemical f...	Content [%]	Remark
	Iron	Fe	98.48 - 99.48	Leading element calculated from standard
	Carbon	C	0.07 - 0.13	Derived from standard
	Manganese	Mn	0.3 - 0.6	Derived from standard
	Phosphorus	P	≤ 0.045	Derived from standard
7439-92-1	Lead	Pb	0.15 - 0.3	Derived from standard
	Sulfur	S	≤ 0.045	Derived from standard
	Silicon	Si	≤ 0.4	Derived from standard

Relevant Regulations ☐ Transpose	
Relevant Regulation	Regulation State
RoHS 3 : 2015/863	NOT CLASSIFIED

Clear Selection from
search table

Company material

Source standard from
Materials Portal

Latest standard from
Materials Portal

Compare View

Download compare
table as PDF with all
configuration (hidden
collectives, ...

Download PDF Clear Selection

Toggle parameter dependent values

DIN EN 12164: 2000-09 (2)

CuSn5Pb1

CuSn5Pb1

Material Description

☐ Toggle parameter sets

Material Name	DIN EN 12164: 2000-09 (2)	CW458K (DIN EN 12164 : 2000-09)	CW458K (DIN EN 12164 : 2024-12)
Material Number	CW458K (DIN EN 12164 : 2000-09)	CW458K (DIN EN 12164 : 2000-09)	CW458K (DIN EN 12164 : 2024-12)
Standard	DIN EN 12164 : 2000-09	DIN EN 12164 : 2000-09	DIN EN 12164 : 2024-12
Semi-finished product	-	Rod	Rod
Thickness [mm]	-	2 - 12	2 - 12
Range of Application	-	DIN EN 12164 : 2000-09 replaced by DIN EN 12164 : 2000-09	Supersedes DIN EN 12164 : 2016-11
Standard Status	-	2	1
Country	-	Germany	Germany
Predecessor	-	-	CuSn5Pb1

Hide collective

Displays a
table with all
properties that
can be hidden
individually.

Close

General Materials

Specific By Type

Metals

Plastics

Composites

Coatings

General Materials: Define your standard materials for first approaches
Specific By Type: All materials ordered by **Metals, Plastics, Composites, Coatings**

Applus Apps & Services

Apps & Services



Materials
Workspace



Materials
Portal



CAE
Workspace



ECO
Workspace



Live
Testing



Digilab



Applus+



All Apps

Slider to enlarge
or shrink Property
Settings

Enter your
property to add to
search table

Properties in
search table

Available
Collectives

Remove
Property
from search
table

Property Settings

Reset Properties X

Search all properties

Basic Data Materials

⊕ Category

⊕ Remark

Select a property

Basic Data Regulation

No properties selected

Select a property

Basic Data Substance

No properties selected

Select a property

Close

Compliance

Regulations

Substances

Set up **Regulations** and **Substances** and confirm your materials about these

Favourites

My Materials

Saved Searches

Watch your favourite materials OR your saved Searches by properties

Public Libraries

Materials Portal Metals

Materials Portal MMPDS

Materials Portal Plastics

Find materials from industry sources such as material standards

Share or Save Search

Copy the link below to share the search:

<https://materialsworkspace-dev.apps.wiamnetwork.com/mat/search2> Copy

Save current search configuration:

Enter name to save

Save

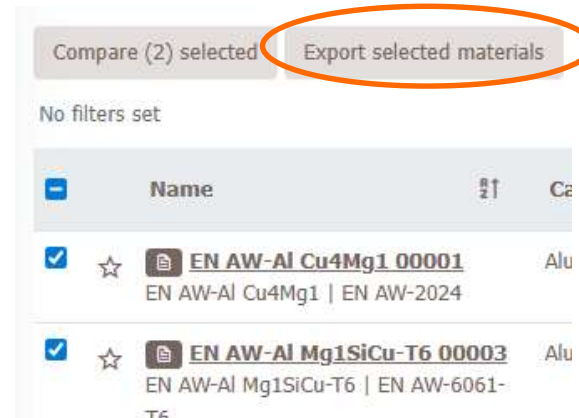
Load saved search configuration:

Demo search

Load

Delete

- Export your materials in different kind of formats.
- **How to use**
- Select material(s) and press „Export selected materials“



- Choose your export variant
- Press „Export“

Export Materials ×

Select exporter:
MatML (XML) × ▼

Select variant:

please select ▲

MatML 3.1 (Selection)
Siemens NX (Selection)
Siemens NX (Full Export)