

Materials under scope of Naming Convention

Grinding Media



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1. Grinding Media

For Grinding Media (GM) is only one PCS in the scope of the Naming Convention, 040203 used for casted grinding balls.

The list of characteristics defined for the classification of the GM according to the Naming Convention Project, will be shown and briefly explained below.

A material can be either in VW or in normal stock. It depends on the different mandatory and optional characteristics. Mandatory characteristics have to be completed in both cases.

2. Key characteristic to consider a Grinding Media part of the VW

For VW will be only allowed **Steel Balls** that has been **Casted**. Other types and manufactured materials will go to Standard Warehouse

040203

Characteristic Name	Commodity(*)	Diameter	Type	Shape	Manufacturing process	Key Alloy	Key Alloy content % (**)	Sub Alloy	Sub alloy content %	Brand Name	Warehouse Type
Characteristic Technical Name	ZNC_COMMODITY	ZNC_DIAMETER	ZNC_TYPE	ZNC_SHAPE	ZNC_MANPROCESS	ZNC_KEYALLOY	ZNC_KEYALLOYCONTENT	ZNC_SUBALLOY	ZNC_SUBALLOYCONTENT	ZNC_BRANDNAME	ZNC_WAREHOUSE
040203	M	M	M	M	M	□	□	□	□	□	M
040203_VW	M	M	M	M	M	M	M	□	□	□	M

3. Characteristics

• **Commodity – Fixed Value**

The commodity will be always defined as GM for this PCS

• **Diameter - Mandatory**

Measurement of the diameter of the GM ball is in mm. The actual list is composed by

15	50
17	60
20	70
25	80
30	90
40	100

- **Type – Mandatory**

Main material that composes the ball. For Virtual Warehouse only steel balls are allowed. Other types remain in standard warehouse

Type	Abbrev
Steel	STL
Ceramic	CER
Others	OTHR

- **Shape - Mandatory**

The form of the object, in VW restricted to ball shape. Materials with other shape than ball will be managed in the standard warehouse:

Shape	Abbrev
Ball	BALL
Cylpeb	CYLP
Boulpeb	BOUL
Conipeb	CONI
SAT balls	SAT
Others	OTHR

- **Manufacturing process - Mandatory**

Technics and methods used to manufacture the ball. In the VW only casted balls will be considered. Grinding media with different manufacturing process will be managed in standard warehouse.

Manufacturing Process	Abbrev
Casted	CST
Forged	FORG
Isopressed	ISOP
Others	OTHR

- **Key Alloy – Mandatory only for VW**

Main component of the alloy of the ball. For the VW the key component of the alloy will be Chromium.

- **Key Alloy content – Mandatory only for VW**

The key alloy is indicated in percentage. The content can be different, therefore 4 ranges were defined. These ranges are:

RANGE < 17%
RANGE 17-20%
RANGE 21-25%
RANGE > 25%

- **Sub Alloy - Optional**

This characteristic can be used to indicate an important component which was used for the sub alloy. The possible options are “C” for carbon, and “Othr” for any other component.

- **Brand Name – Optional**

The brand name is coming from the supplier.

It is not advisable to use the name of the company, just the brand name of the ball. The common list is still open and looks as follow:

CHROME	HARDALLOY
ECOGAM	MAXICROM
DUOGAM	VEGAPLUS
DUOMAX	VEGATOUGH
DUROMAX	ENRGOSTEEL
ECOMAX	VÍTKOVICE

4. Naming convention in material description

A specific language in SAP was developed to generate the material descriptions of the materials with Naming Convention, this language is called "Z2". When a material is created, a standard description in Z2 language is generated automatically, based on the different characteristics.

The fields that complete the "Short description" and "Long description" in grinding media are as follows:

Short Description:

<Commodity>;<diameter in mm> <type> <shape> <manufacturing process>

Long Description:

<Commodity>;<diameter in mm>;<type>;<shape>; <manufacturing process>;<key alloy>;<key alloy content %>;<sub alloy>; <sub alloy content %>;<brand name>; <warehouse type>

An example of a "Short description" and "Long description" of a material categorized inside grinding media is shown below:

Short Description:

GM 17 MM STL BALL CST

Long Description:

GM 17 MM STL BALL CST HICR RANGE < 17% C 2,60 VEGA HARD VW