

What is a Special Preparation?

Border between Preparation and Article

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Content

- **REACH definitions**
- **Importance of the border between preparation and article**
- **Commonness and specialities of different steel producers**
- **Product responsibility**
- **Summary**

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Article 3 (1): Substance



means a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition

Article 3 (2): Preparation



means a mixture or solution composed of two or more substances

Article 3 (3): Article



means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition

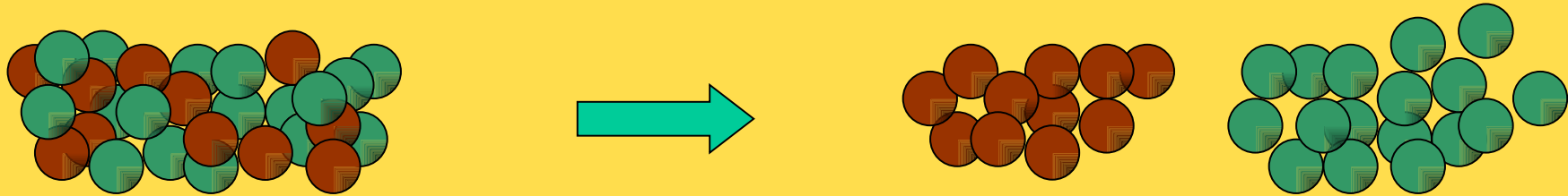
shape, surface or design...

Article 3 (41): Alloy

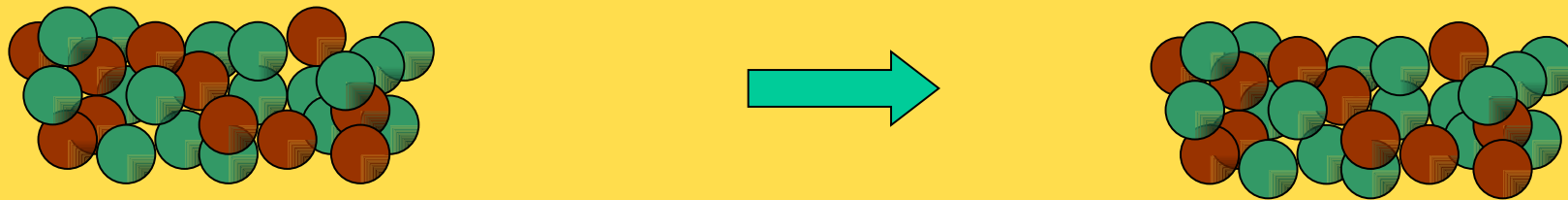


means a metallic material, homogenous on a macroscopic scale, consisting of two or more elements so combined that they cannot be readily separated by mechanical means

REACH Definitions



preparation: elements so combined that they can be readily separated by mechanical means



alloy: elements so combined that they cannot be readily separated by mechanical means

An alloy is a special preparation!

(Whereas 31)

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Relevance of the border between preparation and article

Article 7, Registration and notification of substances in articles

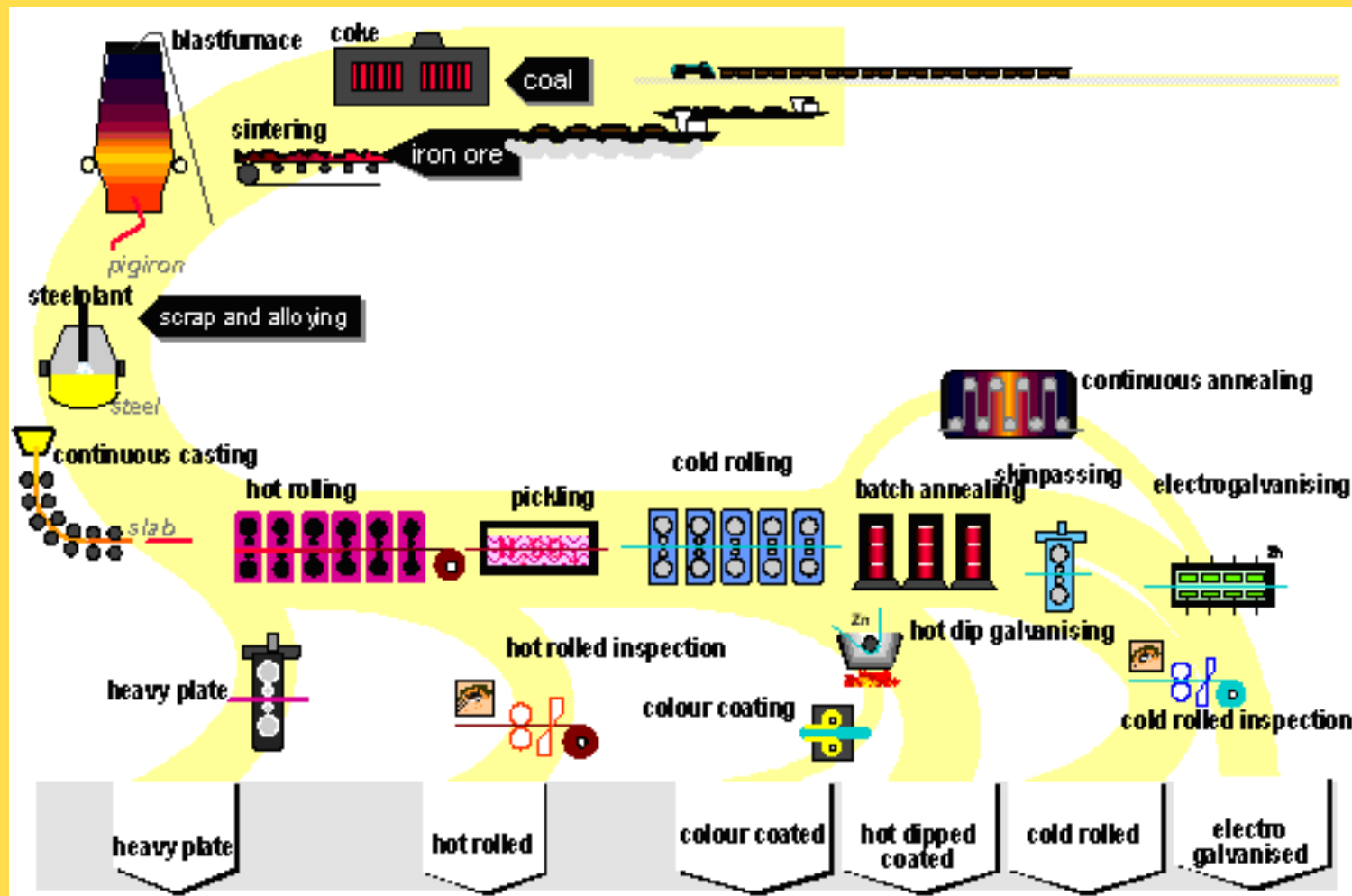
1. Any producer or importer of articles shall submit a registration to the Agency for any substance contained in those articles, if both the following conditions are met:
 - (a) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
 - (b) the substance is intended to be released under normal or reasonably foreseeable conditions of use.

**If articles are imported,
substances within those articles
have to be registered
if they are intended
to be released !**

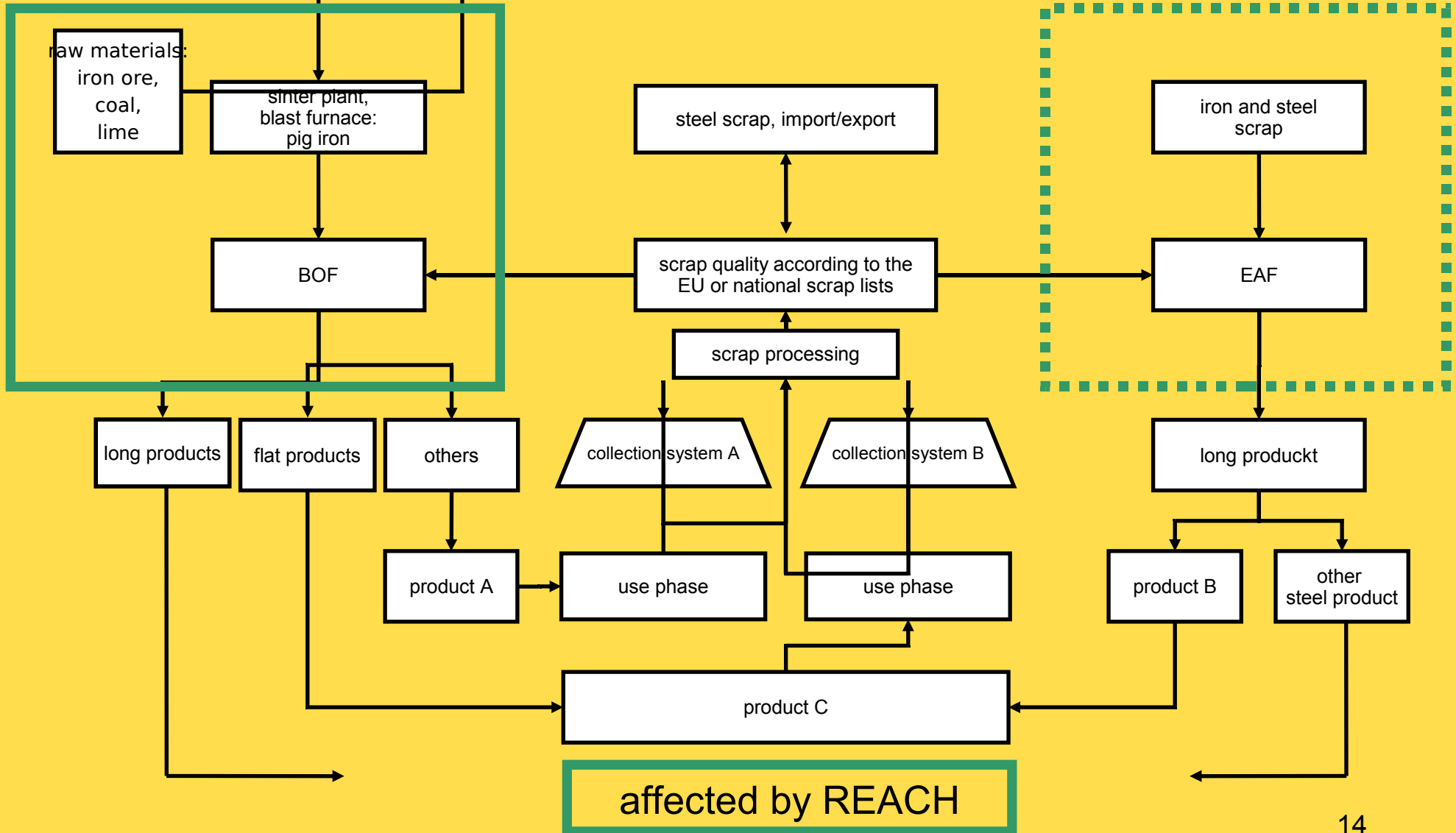
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Material Loop for Steel Products



Material Loop for Steel Products



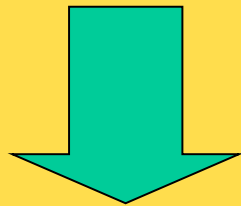
REACH, how the Steel Industry is Concerned

concernment on the substance level

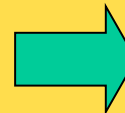
substances needed for the process

imports

produced substances

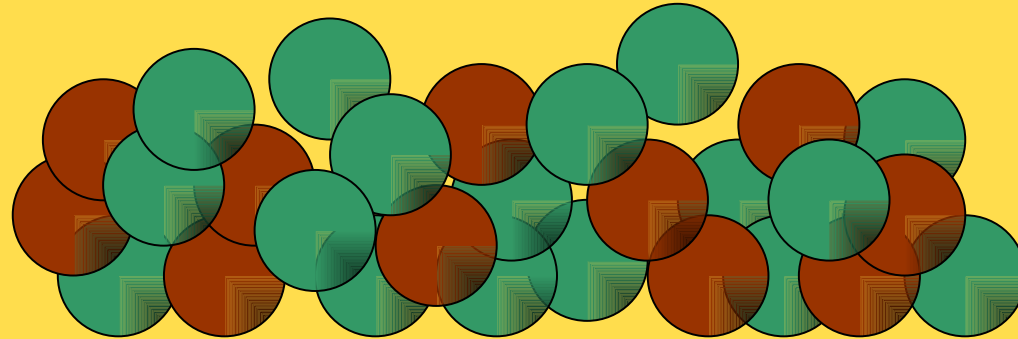


the substance level ends with the
(continuous) casting process



defined shape,
surface and design

Preparation or Article?



shape, surface or design...

Preparation or Article?

Articles have a defined shape, surface and design according to the REACH definition

This shape, surface and design is necessary for the further processing steps

Articles are not remelted

Specifications for Steel Products

EN 10 079:

- 3.2.1 *ingots: products obtained by pouring liquid steel into moulds of a shape appropriate to the subsequent processing into semi finished products, or flat or long products, generally by hot rolling or forging*
- 3.2.2.1 *semi finished products of square cross section: semi finished products with sides of 50 mm and over, generally described as blooms if the sides are greater than 200 mm, or as billets if smaller*
- 3.2.2.2 *semi finished products of rectangular cross section: semi finished products of cross section area $2\,500\text{ mm}^2$ or over of width up to twice the thickness, generally described as blooms if the cross section is greater than $40\,000\text{ mm}^2$, or as billets if smaller*
- 3.2.2.3 *flat semi finished products: products of thickness generally 50 mm or over of width twice the thickness or over, generally described as slabs*
- 3.2.2.4 *round semi finished products: continuously cast or forged semi finished products of circular cross section*
- 3.2.2.5 *blanks for section: semi finished products intended for the manufacture of sections that have been performed for that purpose*

ISO 6929: *Definitions like EN 10 079*

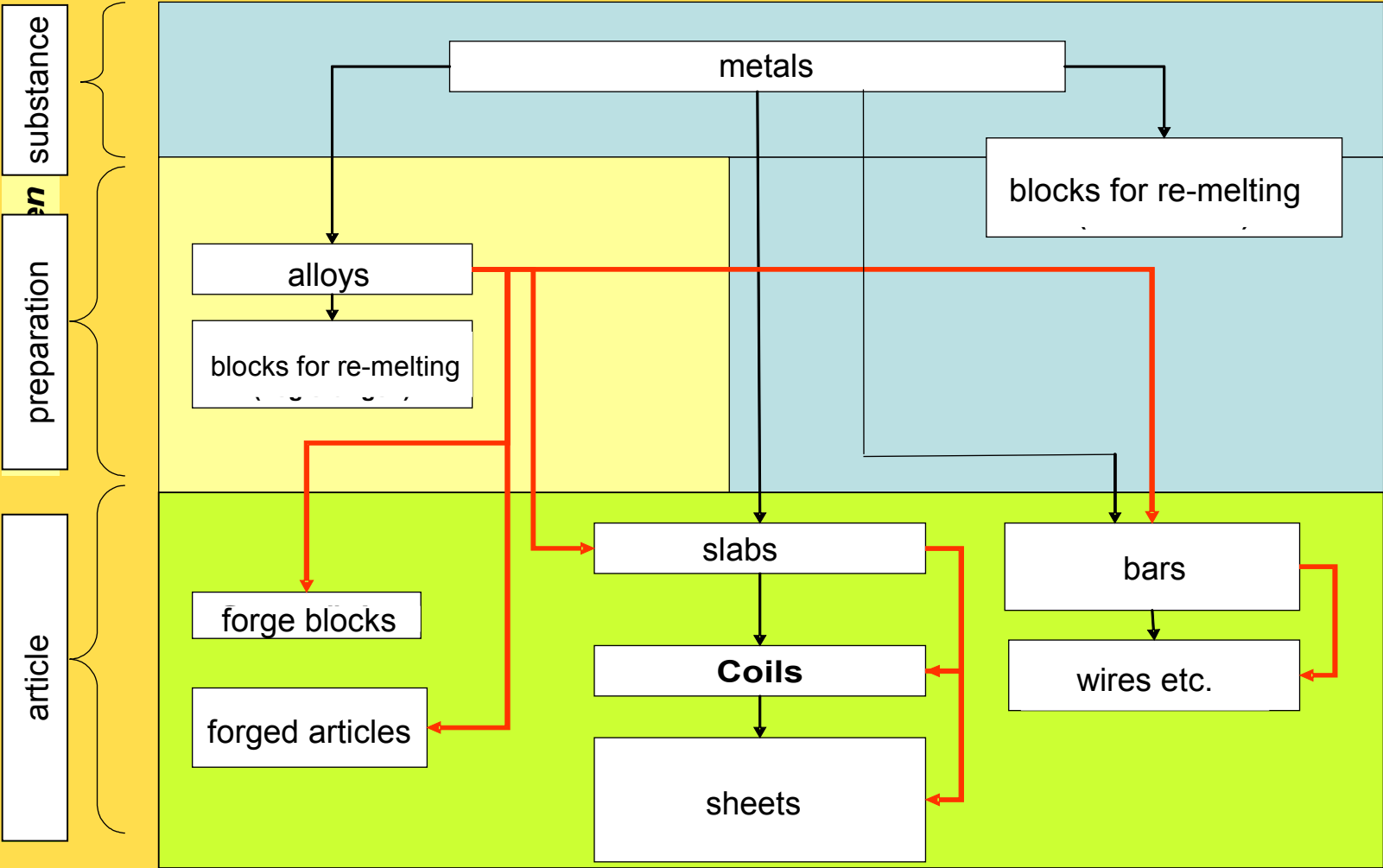
Company Specifications for Steel Articles

- weight
- length
- wideness
- thickness
- diagonal length
- bending
- side convexness
- side concaveness

Steel Articles are

- ingots,
- slabs,
- bars,
- billets and
- blooms

Borders



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Product Responsibility

- The border between preparation and article does not affect the product responsibility of the steel industry
- The dossiers of the metals used as alloying elements will describe the whole product cycle
- Ingots, slabs, bars, billets and blooms and the articles produced from them and their uses will be taken into account in the dossiers
- There would be no further information if ingots, slabs, bars, billets and blooms would not be defined as articles

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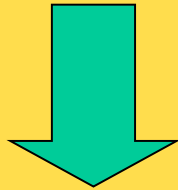
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Summery

Ingots, slabs, bars, billets and blooms are defined as articles by the steel industry

This definition is in line with the REACH-regulation

The product responsibility is not affected



An intentional release of substances from those articles does not happen

The substances within ingots, slabs, bars, billets and blooms do not have to be registered if those articles are imported



Thank you very much for your interest !