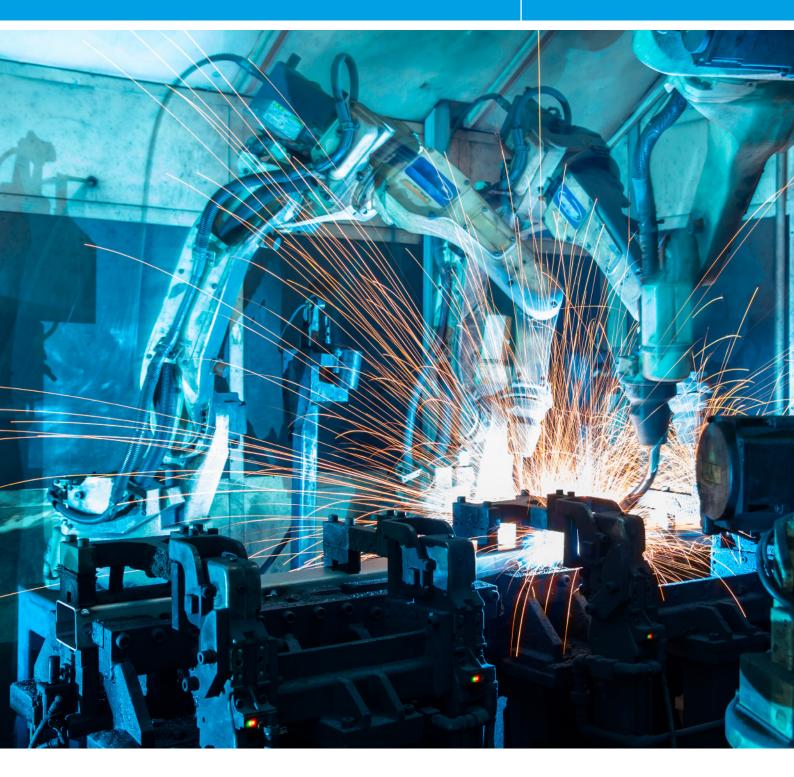
European business statistics user's manual for PRODCOM

2021 edition





MANUALS AND GUIDELINES

European business statistics user's manual for PRODCOM

2021 edition

Manuscript completed in January 2022

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PRODCOM is the title of the EU production statistics for Mining and quarrying, Manufacturing (with the exception of military products and some energy products) and Material recovery (38.3) that are sections B, C and E of NACE Rev. 2 (1). The title comes from the French "PRODuction COMmunautaire" (Community Production).

The evolution of PRODCOM dates back to 1985 when there were the first meetings of the working party on "Production Statistics". Its objective was to harmonise the various ways industrial production statistics were collected in the Member States.

Although in most countries statistics were collected on production, these covered the national situation, and national nomenclatures were used and different survey methods applied.

1.1 Background to PRODCOM

The basis of PRODCOM is to enable these national statistics to be compared and where possible aggregated to give a picture of the developments of an industry or product in the European context. This aim became more urgent with the creation of the single market in 1992, and with rapid changes occurring in Europe, the statistical system had to adapt to these changes.

The first year for the survey was 1993, with 1992 national data, which are as close as possible to the PRODCOM List to be sent at a later date. As data for early years are not considered reliable, only data from 1995 onwards are now published.

For 1995 to 2007, the data collection was based on NACE Rev. 1.1. and has been converted where possible to the data based on NACE Rev. 2. Therefore, the PRODCOM data from 1995 onwards provide a series of data available on NACE Rev. 2.

The survey conducted between 1995 and 2020 was based on the Council Regulation (EEC) No 3924/1991 (²) on the establishment of a Community survey of industrial production, which stated that production is to be recorded according to the product headings of the PRODCOM List. This was needed as in the original EU treaties there had been no mention of a register for production statistics.

For reference periods before 2021, the survey covered the physical volume of production and the value and volume of production sold during the survey period. The Sold Production reported the value or the volume of production sold, i.e. excluding any production that the enterprise needed for further processing. The Total Production referred to the total volume of production, whether it was sold or used by the enterprise for further processing.

^{(&#}x27;) NACE Rev.2 - Statistical classification of economic activities;

⁽²⁾ Council Regulation (EEC) No 3924/1991 on the establishment of a Community survey of industrial production

In 2004, the Commission Regulation (EC) No 912/2004³ clarified the PRODCOM coverage and the observation units, with the aim to reduce the administrative burden on respondents reporting on industrial production.

Between 2003 and 2005, some steel products were reported in PRODCOM monthly by volume.

The Commission Implementing Regulation EU 2020/1197 (⁴) is laying down technical specifications and arrangements pursuant to Regulation (EU) 2019/2152 of the European Parliament and of the Council. This EBS regulation presents the additional data requirements such as the collection and transmission of data on production under sub-contracted operations and the introduction of the kind-of-activity unit (KAU (⁵)) as the statistical unit for collecting PRODCOM statistics. The EBS data exchange standards should be harmonised to the extent possible and ensure cross-domain comparisons.

For reference period 2021 and onwards, the current survey collects PRODCOM data on the physical volume and the value for Sold Production and Production under Sub-contracted Operations. The Actual Production refers to the actual volume of production, whether it is sold or used by the enterprise for further processing. The production under sub-contracted operations is completely separated from the sold production variable.

1.2 Purpose of PRODCOM

The purpose of PRODCOM is to inform the European business sector (including business associations, business consultants and firms), the Commission, and the DG's of for example Environment, Enterprises, Industry, Agriculture, Business Negotiation and Competition, on the EU supply of industrial products.

- Industrial products are, according to PRODCOM, products from activities listed in sections B, C and E in the Statistical classification of economic activities in the European Community, NACE (Rev. 2).
- PRODCOM monitors together with trade data EU supply of industrial products.

1.3 What is PRODCOM

PRODCOM is a community scheme, based on Regulation of 1991, for producing detailed product output information at the EU level. It involves compilation of EU production data from information provided by Member States plus Norway and Iceland, mainly on an annual basis, for several thousand of selected products (= commodities and services) specified in the PRODCOM List.

- The PRODCOM List includes the codes of the products and their descriptions. The PRODCOM Expert Group updates it every 2-3 years.
- PRODCOM products derive from activities listed in sections B, C and E in the NACE Rev. 2.
- The products are included in PRODCOM according to their eight-digit code, the PRODCOM List. The first four digits of a PRODCOM code refer to the NACE classification, and the first six digits refer to the CPA (⁶) classification. The last two digits are created specifically for PRODCOM.
- Most eight-digit PRODCOM codes have a complete reference to the Combined Nomenclature (CN) (⁷). A complete reference means full comparability between data from PRODCOM and data from foreign trade classified by the Combined Nomenclature.

^{(&}lt;sup>4</sup>) Commission Regulation (EC) No 912/2004 of 29 April 2004 implementing Council Regulation (EEC) No 3924/91 on the establishment of a Community survey of industrial production

^(*) Commission Implementing Regulation EU 2020/1197 of 30 July 2020 laying down technical specifications and arrangements pursuant to Regulation (EU) 2019/2152 of the European Parliament and of the Council

^(*) European business statistics methodological manual for statistical business registers (europa.eu)

^(*) Statistical Classification of Products by Activity - Commission Regulation (EU) No 1209/2014 of 29 October 2014 establishing a new statistical classification of products by activity (CPA)

⁽⁷⁾ Combined Nomenclature; Commission Implementing Regulation (EU) No 2020/1577 of 21 September 2020

Exemptions from this main rule are:

- PRODCOM codes that are more detailed than CN.
- PRODCOM codes that cover industrial services (because the CN only includes commodities).
 Nevertheless, PRODCOM codes on industrial services might have a reference to CN codes. This reference only gives information on the products to which the services apply.
- The corresponding trade data on volume cannot be provided for PRODCOM codes for which unit of measure is not consistent with unit of measure given in CN, even if a PRODCOM code has a complete CN reference.

The consequences of this way of creating PRODCOM codes are:

- PRODCOM codes do not cross CPA (or NACE) classes. Each PRODCOM code belongs to only one CPA (or NACE) class.
- Trade data can only be provided for PRODCOM codes with a complete reference (clear link) to the CN.

PRODCOM includes data on national production and EU aggregates since 1995. Data is recorded on an annual basis, and were on a monthly basis for steel products between 2003 and 2005.

Normally, data on the value and quantity of production of each PRODCOM heading is published. Exact information on the data to be reported for each eight-digit PRODCOM code is included in the PRODCOM List. A new List was prepared for each year until 2016, after it is updated every 2 or 3 years. The PRODCOM List is to be used to survey production during that year.

Each PRODCOM code has a 'Description', a 'Volume Physical unit' (except services and codes covering products of diversified physical features), a 'Production type' and occasionally a 'Reference to Notes'. Detailed information on these fields is included in the first – 60 – pages of the PRODCOM List.

- The 'Description' is a short, self-explanatory, stand-alone text
- The CN reference refers to the CN codes covered by the PRODCOM heading
- The 'Volume Physical unit' indicates the measurement unit for this heading
- The 'Production type' indicates the concept of production
- The 'Reference to Notes' includes reference to any specific information on this heading

1.3.1 What data are collected?

The following information is requested for each variable carried out during the reference period and within the economic territory of each country:

- Variable 251001: The sold production is defined as sold (invoiced) production, which may be carried out under the primary or secondary activities of the enterprise. It includes production sold (invoiced) between different kind-of-activity units belonging to the same enterprise.
- Variable 251002: The production under sub-contracted operations, which has been sold (invoiced) to the principal in line under the conditions for sub-contracted operations as specified by the CPA guidelines. The production may be carried out under the primary or secondary activities of the enterprise.
- Variable 251003: The actual production includes any production carried out during the reference period and within the economic territory of each country. It includes those products which, either in the kind-of-activity unit itself, or in another kind-of-activity unit belonging to the same enterprise:
 - 1. are intended for sale,
 - 2. are processed into another product,
 - 3. are fitted into another product, or
 - 4. are put into stock.

1.3.2 EBS regulation

The PRODCOM survey is based on a list of products called the PRODCOM List. These products are detailed at 8-digit level under divisions 07-33 and 38 CPA. Only information on this level can be found in the PRODCOM data.

The Commission Implementing Regulation EU 2020/1197 (hereafter referred to as EBS regulation) is to be found in the Official Journal No L271, which stipulates country-level business statistics on industrial production. This EBS regulation defines three variables 251001 Sold production, 251002 Production under sub-contracted operations and 251003 Actual production, and this production is to be actually carried out on its territory. This means that the production of subsidiary undertakings, which takes place outside the enterprise's territory, is not included in the survey.

1.3.3 Changes compared with regulation repealed by the EBS regulation

For the reference years 1995 – 2020, the data transmitted to Eurostat by Member States had to contain a record for:

- Sold production
 - a. values = values of the sold production produced on own account + values of the sold production produced under sub-contracted operations
 - b. quantities = quantities of the sold production produced on own account + quantities of the sold production produced under sub-contracted operations

This was used for reporting the value or volume of production sold, i.e. excluding any production that the enterprise uses for further processing.

• Total production (no changes comparing to EBS variable 251003) = quantities of the production on own account + quantities produced under sub-contracted operations

Since 1995 onwards, this is used for reporting the total (actual) volume of production, whether it is sold or used by the enterprise for further processing. For reference years 1995 – 2020 the EBS variable 251002 (production under sub-contracted operations) was not required.

1.3.4 Which countries report PRODCOM data?

In addition to the Member States, the EFTA countries (Norway and Iceland) are bound by the EBS regulation to conduct PRODCOM survey and transmit the data to Eurostat. National data for all non-Member State countries are published individually but not included in EU totals.

Three Member States (Cyprus, Luxembourg and Malta) are exempted on providing the PRODCOM data based on the economic size of the country. The 1% rule is applied, i.e. it is not necessary to compile data for the variables 251001, 251002 and 251003, if a related indicator of the Member States is less than 1% of the EU total.

1.3.5 When are data to be collected

- PRODCOM survey is primarily an annual survey.
- Member States can choose to run their survey monthly, quarterly or annually as long as the data are supplied to Eurostat as annual data.
- PRODCOM List is in force at the end of the reference period.
- The first reference period under the EBS regulation is 2021.

1.3.6 How are data to be collected?

- Member States use a survey questionnaire, which conforms to the requirements of the EBS regulation. They may also use other sources of information to supplement the survey.
- Enterprises are asked to give true and complete information within the stipulated deadlines.

1.3.7 Transmission of results

After data have been collected, Member States send annual data to Eurostat within 6 months after the end of the reference year. Data, which under national law are confidential, are also transmitted to Eurostat, and handled under the rules of the Statistical Law (⁸).

When data already transmitted to Eurostat are subject to revision, Member States shall transmit the revised data by the time of their dissemination at national level at the latest, or, if they are not disseminated at national level, no later than one month after they have become available to a national statistical authority.

^(*) Legal framework for European statistics - The Statistical Law - Products Statistical Books - Eurostat (europa.eu)



PRODCOM classification

2.1 The PRODCOM classification

Before data collection could begin, it was necessary to draw up a common list of products to be covered. Drawing up the PRODCOM List was a unique opportunity for Eurostat, the NSIs and the European Trade Associations (FEBIs) to work together to produce a classification that would work on the micro, national and European level. The two principal aims were to measure production and to enable a calculation of apparent consumption by linking production statistics to foreign trade statistics. The link between the two, production statistics and external trade data refers to Europroms.

The PRODCOM statistics have to be comparable with external trade statistics, which are based on the Combined Nomenclature (CN), there had to be a close relationship between the two nomenclatures. Furthermore, the basic building blocks for PRODCOM are NACE (Rev. 2, as from 2008) and the CPA (Classification of products by activity); therefore, the PRODCOM List had to be developed in close association with these nomenclatures.

To understand how the different nomenclatures fit together, and their links to worldwide nomenclatures it is useful to consider the diagram below, which gives an overview of the revised system of integrated statistical classifications. This diagram shows the clear links between the PRODCOM List and the CN, which then links up to the Harmonised System (HS) at a worldwide level.

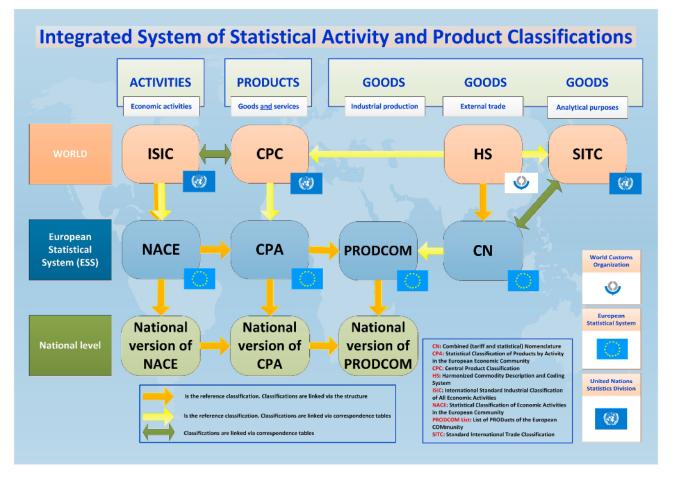


Figure 2.1: Statistical classifications

PRODCOM headings are directly derived from the two nomenclatures to its left on the diagram – NACE and the CPA. The 8-digit PRODCOM code takes its first 4 digits from NACE and digits 5 and 6 from the CPA, thus enabling a consistent link to these two classifications.

However, there were instances where the CN classification gave too much detail in how it broke down products within a specific category. It did not meet the needs of the likely end users of PRODCOM data such as the European federations and other professional associations.

The box below gives an example of how one industrial sector can be broken down into different headings.

Box 2.2: Classification of products

NACE 11.02

			Detail			
1 1.02	Manufactu	ure of wine fr	om grape			
	=11.02.12 Wine of fresh grapes, except sparkling wine; grape must					
		11.02.12.11	White wine with a protected designation of origin (PDO)	Detail		
		11.02.12.15	Wine and grape must with fermentation prevented or arrested by the addition of alcohol, put up with pressure of CO_2 in solution ≥ 1 bar < 3, at 20 °C (excluding sparkling wine)	Detail		
		11.02.12.17	Quality wine and grape must with fermentation prevented or arrested by the addition of alcohol, with a protected designation of origin (PDO) produced of an alcoholic strength of \leq 15 % (excluding white wine and sparkling wine)			
		11.02.12.20	Wine and grape must with fermentation prevented or arrested by the addition of alcohol, of an alcoholic strength \leq 15 % (excluding sparkling wine and wine (PDO))	Detail		
		11.02.12.31	Port, Madeira, Sherry and other > 15 % alcohol	Detail		
		11.02.12.50	Grape must (excluding alcohol duty)	Detail		

Source: Europa - RAMON - Reference And Management Of Nomenclatures

That was the reason to base the PRODCOM List on the CN but with some modifications. The result was a list of 5765 headings, which was published in November 1993 in all nine official languages of the European Union (EU). Now they are available in all EU languages. Because of changes in an industry, some modifications are made to the list to improve it. These can range from a new breakdown of the codes used for products, an improvement to the translation of a heading for a languages or a restructuring of some headings.

Over the years, the List has been added to in various ways to satisfy the demands of different users. The List has become increasingly complex, and little attention was paid to the feasibility of collecting data on all the required headings. A process of consultation was therefore conducted in 2004 with a view to simplifying the List and thus improving its quality. These were applied to the 2005 List, with further simplifications being applied in subsequent years. The PRODCOM Expert Group prepared the PRODCOM List annually until 2016 after it was decided to be updated every 2 or 3 years.

Currently, there are almost 3900 products available in the PRODCOM List. The PRODCOM Working Group of November 2016 agreed to keep the list stable and update it only with the frequency required by the technological changes in the industries and as driven by the related nomenclatures (i.e. the PRODCOM List will be updated if the NACE and the HS/CN classification are updated).

2.2 PRODCOM List

The basis of the PRODCOM data that Member States must report to Eurostat is the PRODCOM List. The List is published every 2 or 3 years as the subject of a Commission Regulation.

The data transmitted to Eurostat by the Member States must contain one record for each heading in the List, to report the national production of the product referred to by the heading.

The List provides a number of characteristics for each heading. The following are important in reporting data for the heading:

• The heading type, which indicates the combination of production types required.

The volume unit to be used to express volumes for this heading. If no volume unit is specified the volume of production does not have to be reported.

Box 2.2: PRODCOM List

Quick links

Europa - RAMON - PRODCOM List 1993 and onwards

Europa - RAMON - Reference And Management Of Nomenclatures



PRODCOM dataset

This chapter provides an overview of the contents of the PRODCOM datasets as well as the necessary guidelines for the practical implementation of the European Business Statistics (EBS) legal requirements related to the compilation of the statistical data on production under sub-contracted operations.

The production under sub-contracted operations shall be completely separated from the sold production variable.

3.1 PRODCOM dataset 2008 - 2020

In this paragraph, the datasets provided by the Member States to Eurostat for the reference years 2008 – 2020 are described hereafter.

3.1.1 PRODUCTION types

The PRODCOM List specifies two Production Types:

- Type S (Sold Production). This is used for reporting the value or volume of production sold, i.e. excluding any production that the enterprise uses for further processing.
- Type T (Total Production). This is used for reporting the total volume of production, whether it is sold or used by the enterprise for further processing.

3.1.2 Heading types

The heading type indicates the combination of production types that are required for the heading:

- Type S. For headings of this type, both the value and volume (9) of sold production should be reported.
- Type T. For headings of this type, the value of sold production and the volume of both sold and total production must be reported.
- Type I. (Industrial Services). No volume data is required for headings of this type. The fee paid to the service provider should be reported as the value. For this heading type, it is not necessary to signal that the value is based on the fee paid.
- Type V. Only the total volume should be reported.

⁽⁹⁾ If a volume unit is specified

3.2 PRODCOM dataset 2021 onwards

In this paragraph, the datasets provided by the Member States to Eurostat from reference year 2021 onwards are described hereafter.

3.2.1 EBS variables on Industrial production

According to the requirements in the EBS General Implementing Act, the following three variables for industrial production are specified:

- Variable 251001 (Sold production): national currency (thousands) and (except for industrial services) quantity as defined in the PRODCOM List in force at the end of the reference period.
- Variable 251002 (Production under sub-contracted operations): (except for industrial services)
 national currency (thousands) and quantity as defined in the PRODCOM List in force at the end of the
 reference period.
- Variable 251003 (Actual production): quantity as defined in the PRODCOM List in force at the end of the reference period.

Box 3.1: EBS variables on industrial production shall include the following data

The variable 251001 shall include values of the sold production produced on own account (including industrial services) and quantities of the sold production produced on own account. It includes production sold/invoiced during the reference period.

The variable 251002 shall contain values equal to the fee received by subcontractor/ paid by principal and quantities produced under sub-contracted operations. It includes production paid to the sub-contractor by the principal during the reference period.

The variable 251003 shall be a sum of quantities of the actual production on own account and quantities produced under a sub-contracted operations. It includes production carried out during the reference period.

3.2.2 Heading types

The heading type indicates the combination of production types that are required for the heading:

- Type S. For headings of this type both the value and volume (¹⁰) of sold production and production under sub-contracted operations shall be reported.
- Type T. For headings of this type the value and volume of sold production, production under subcontracted operations and actual production shall be reported.
- Type I. (Industrial Services). No volume data is required for headings of this type. The fee paid to the service provider should be reported as the value. For this heading type, it is not necessary to signal that the value is based on the fee paid. The value of sold production shall be reported.
- Type V. Only the volume of the actual production shall be reported.

⁽¹⁰⁾ If a volume unit is specified

3.2.3 Reporting of the production variables

The production on own account

Box 3.2: Production carried out on own account is to be collected from the producer

The producer reports:

- Sold production value produced on own account sold/invoiced during the reference period
- Sold production quantities produced on own account sold/invoiced during the reference period
- Actual production quantities produced on own account during the reference period

variable 251001 Sold production:

- a. values = values of the sold production produced on own account sold/invoiced during the reference period
- b. quantities = quantities of the sold production produced on own account sold/invoiced during the reference period

The production under sub-contracted operations

Box 3.3: Production carried out under sub-contracted operations is to be collected from the subcontractor

The subcontractor reports:

- Sold production value equal to the fee received by subcontractor/paid by principal during the reference period Sold production quantities produced under sub-contracted operations paid to the subcontractor by the principal during the reference period
- Actual production quantities produced under sub-contracted operations during the reference period

variable 251002 Production under sub-contracted operations:

- a. values = value equal to the fee received by subcontractor/paid by principal during the reference period
- b. quantities = quantities produced under sub-contracted operations paid to the subcontractor by the principal during the reference period

The Actual production

The actual production as stated above is calculated by summing up all production carried out during the reference period and within the economic territory of each country, whether produced on own account or under sub-contracted operations.

variable 251003 Actual production = quantities of the production on own account + quantities produced under sub-contracted operations

The distinction between the production on own account and the production carried out under subcontracted operations has to be made (in order to avoid over reporting or under reporting).

The producer is reporting the production data either as sold production on own account, or as production under sub-contracted operations when meeting the requirements defined in this section.

3.2.3.1 CONCEPT AND DEFINITION

Production carried out by a subcontractor, within the economic territory of each country, which has been sold (invoiced) during the reference period to the principal in line under the conditions for subcontracted operations as specified by the CPA guidelines. Enterprises with plants abroad exclude the production done outside the national territory from the data. The products may be carried out under the primary or secondary activities of the enterprise.

In any sub-contracted operation, the principal unit and the subcontractor unit are to be different enterprises. Sub-contracted operations between different plants (KAUs) belonging to the same enterprise are not possible, nor to be recorded under PRODCOM statistics.

3.2.3.2 THE PRODUCTION ON OWN ACCOUNT VS. PRODUCTION UNDER SUB-CONTRACTED OPERATIONS

The distinction between the production on own account and the production under sub-contracted operations shall be based on one of the two methods listed below:

A. The main material input principle:

The value of the material inputs provided shall be used as the criterion for identifying the main material input, as set out by the CPA guidelines (¹¹). This is a quantifiable and rather objective measurement unit. The threshold for the main material input is set to 80 %, thus indicating that the ratio main/secondary inputs must be high. Nevertheless, this threshold was adopted arbitrarily and should therefore be interpreted with flexibility. Intangible assets (software, patents, etc.), as well as machines or tools provided by the principal unit are however not to be considered as material inputs. Software products for instance are used in the production process in the same way as machines and other equipment, i.e. they are not incorporated or transformed into the final product. They are thus to be regarded as capital goods and not as physical material inputs. This rule of the main material input owned by the principal is just a general guiding principle having exceptions.

B. The ownership of the final product principle:

Alternatively, another principle could be used to establish the relation between the parties in the case of sub-contracted operations when the share of the value within the material input owned by the principal and by the sub-contractor is difficult to identify. In this case, it is recommended to use the contractual relationship between the two parties and to consider who has the ownership of the final product.

If at least one of the above criteria is met, the respective production should be recorded under the variable 251002 – Production under sub-contracted operations.

3.3 PRODCOM data flags

The flags are used to signal the estimated figures. They can contain two different values:

E: reliable estimate

U: low reliability estimate

The estimated data (flagged E) signals that the values are reliable estimates, considered accurate enough to be published at the national level. These figures will be disseminated and flagged accordingly in dissemination, both at EU level and at the national level.

^{(&}quot;) EUROPA > European Commission > CIRCABC > Eurostat > NACE Rev. 2 - CPA 2008 European Commission > Eurostat > CPA > CPA Ver. 2.1

CPA rev. 2.1 Handbook part 6 - Outsourcing

The low reliability estimates should be flagged with **U**. Such estimates will be suppressed from the national data published by Eurostat but will be included in calculation of the EU totals. These totals will be flagged with **E**.

Although not published at the national level, U flagged figures will be treated as confidential and EU aggregates will be rounded in order to protect them.

N: CETO (contribution to European totals only)

In order to minimise the burden on businesses and the costs to the national statistical authorities, Member States may mark data for use as a contribution to European totals only (CETO) for the EBS variables. The data shall be flagged with an **N** and shall not be published at the national level. This data will not be either disseminated by Eurostat, however will be used for calculating the EU totals. The EU totals will be flagged by **E** on Eurostat's website.



This chapter gives information on how to access data in PRODCOM.

4.1 Publication of PRODCOM data

PRODCOM data is available on-line in three forms:

- Database form, including trade data
- Excel spreadsheets (production data only)
- Comext database

The PRODCOM data is published annually around mid-July.

The PRODCOM data dissemination on Eurostat's website is available to all users free of charge.

4.1.1 Database

Statistics on the production of manufactured goods (prom) is the name given to published PRODCOM data on Eurostat's website.

Available in database at the link: http://ec.europa.eu/eurostat/web/prodcom/data/database

Figure 4.1: EUROPA > Eurostat > Prodcom - statistics by product > Data > Database

🖻 😓 Statistics on the production of manufactured goods (prom) 🌆

- 🥫 Sold production, exports and imports by PRODCOM list (NACE Rev. 2) annual data (DS-066341)
- 👿 Total production by PRODCOM list (NACE Rev. 2) annual data (DS-066342)
- 😵 Full access to detailed statistics on international trade in goods (Comext) (comext)
- DS-066341 gives annual data on sold production, exports and imports by PRODCOM List.
- DS-066342 provides annual data on total production by PRODCOM List.
- Comext comext combine access to international trade and PRODCOM data and enable compress
 data in the available layouts. In addition, the Reference Metadata in Euro SDMX Metadata Structure
 (ESMS) is available and displays national metadata produced by reporting countries and released by
 Eurostat.

Further description is given in the chapter 4.3.

4.1.2 Excel Files

Available on Excel files - format (one file per year) at the link: http://ec.europa.eu/eurostat/web/ prodcom/data/excel-files-nace-rev.2

The Excel files show only production data. Each spreadsheet contains data on Value, Sold Volume, Total Volume, Unit Value (median) and Label (PRODCOM code with its description). Data are available from 1995 onwards, per reporting country and EU aggregate. The PDF document "How to use the Excel files" is available online below the headline "See also" at the top right corner.

Figure 4.2: Excel tables (for NACE Rev.2)

News Data	Publications	About Eurostat	Help
European Commission > Eurostat >	Prodcom - statistics by product > Data > Excel f	iles (NACE Rev.2)	
MANUFACTURED GOODS (PRODCOM)	EXCEL FILES - NACE REV. 2		SEE ALSO
Overview	The Excel files on this page contain Prodcom dat	a based on NACE Rev. 2. For 2008	How to use the Excel file
Data	onwards the files contain the original data based	on NACE Rev. 2 as supplied by the	A now to use the excernic.
EXCEL FILES (NACE REV.2)	reporting countries. For 1995 to 2007 the files co		
Database	where possible from the data based on NACE Re	v. 1.1.	
Publications	These tables only show the production data. To u	use the database that contains both	
	production and related trade data, please click o	n "Database" in the menu to the left.	
Methodology	Prodcom Annual Data 2020 (updated 15/07/2	.021)	
Legislation	Prodcom Annual Data 2019 (updated 15/07/2		
Policy context	Prodcom Annual Data 2018 (updated 15/07/2	.021)	
	Prodcom Annual Data 2017 (updated 03/03/2	.021)	
	Revealed the second sec	.021)	
	Prodcom Annual Data 2015 (updated 04/08/2	020)	
	Prodcom Annual Data 2014 (updated 04/08/2	020)	
	Prodcom Annual Data 2013 (updated 04/08/2		
	Prodcom Annual Data 2012 (updated 18/07/2		
	Prodcom Annual Data 2011 (updated 23/07/2		
	Prodcom Annual Data 2010 (updated 18/07/2		
	Prodcom Annual Data 2009 (updated 18/07/2		
	 Prodcom Annual Data 2008 (updated 08/05/2 Prodcom Annual Data 2007 (updated 26/02/2 		
	 Prodecom Annual Data 2007 (updated 26/02/2 Prodecom Annual Data 2006 (updated 26/02/2 		
	 Prodecom Annual Data 2006 (updated 26/02/2 Prodecom Annual Data 2005 (updated 26/02/2 		
	 Prodecom Annual Data 2009 (updated 26/02/2 Prodecom Annual Data 2004 (updated 26/02/2 		
	Prodcom Annual Data 2003 (updated 26/02/2		
	Prodcom Annual Data 2002 (updated 09/11/2		
	Prodcom Annual Data 2001 (updated 09/11/2		
	Prodcom Annual Data 2000 (updated 09/11/2	.009)	
	Prodcom Annual Data 1999 (updated 09/11/2	.009)	
	Prodcom Annual Data 1998 (updated 09/11/2	.009)	
	Prodcom Annual Data 1997 (updated 09/11/2	009)	
	Prodcom Annual Data 1996 (updated 09/11/2		
	Prodcom Annual Data 1995 (updated 09/11/2	009)	

4.1.3 COMEXT

Available in Comext database at the link: http://epp.eurostat.ec.europa.eu/newxtweb/ or by accessing through Database.

Figure 4.3: Quick link to Comext via Database

DATABASE							
🗄 😓 Statistics on the production of manufactured goods (prom) 🚡							
📲 Sold production, exports and imports by PRODCOM list (NACE Rev. 2) - annual data (DS-066341)							
Total production by PRODCOM list (NACE Rev. 2) - annual data (DS-066342)							
📃 🙀 Full access to detailed statistics on international trade in goods (Comext) (comext)							
Access to external trade data (COMEXT)							

The available datasets within International Trade - Statistics on industrial production and international trade are Sold Production, exports and imports (DS-056120), Total Production (DS-056121).

Figure 4.4: EUROPA > Eurostat > International Trade

Available datasets

... INTERNATIONAL TRADE

Statistics on industrial production and international trade (prom)

Annual detailed data by PRODCOM list (according to Nace Rev.2) (prodcom_n2)

- Sold production, exports and imports (DS-056120) 📄 M

Total production (DS-056121) 📄 M

This icon leads to New Query, which allows building the query on selected dataset.

Magnetic The M icon links to the Metadata reports (ESMS) released by EUROSTAT.

Box 4.1: Metadata reports (ESMS)

Quick links

Europa - Reference Metadata in Euro SDMX Metadata Structure (ESMS)

4.1.3.1 HOW TO BUILD NEW QUERY

For each dimension, desired data is to be selected by clicking on the dimension name above the corresponding list.

- DECL
- PERIOD
- PRCCODE
- INDICATORS

Figure 4.5: Building new query

eurostat Your key to Euro				International trade Help & FAQ International trade metad
Step 1 2 3	Tutorials Context He	lp Login Register Labels langua	ge English (en) 😒	
Dataset Name. Description	US-066120 - Sold production, exports and imports		Dalasel updale dale. Query last updale date:	Mar 00 2021, 13 02 (GM1+1)
	th data you want to extract by olloking on the dimension name above the corresp			
DE	icil Section sizer © 🕜 💽	PERIOD Selection size: D 🕐 💌		PRCCODE Saloction size: 9 (9) 💌
	*		, v	×
IN Se	ection stze: 0 🕜 📾			
Estimated number of cells: 0 Remarks				
The maximum dimension The maximum number of If you want to extract more	i searchan size, is: 12000 f cells you can extract in interactive mode is: 120000 re cells, plazae login or register (top right corner)			Compress

The available element(s) must be chosen to the right window. The dimension can be switched in the upper part as shown in the Figure 4.6.

Figure 4.6: Dimension, available elements

DECL (DS-056120) - Google Chrome	-	- 🗆
A Not secure epp.eurostat.ec.europa.eu/newxtweb/loadpage.do		
Dataset: Sold production, exports and imports Dataset metadata Dimension: DECL V Dimension metadata Available elements (40 individuals) Show	Selected 0 group(s), 0 aggregate(s), 0 formula(s), 0 implicit list(s), 1 individual(s) 2027-EU27TOTALS 2020	user
Codes Aggregates Formulas 092-Croatia 093-Bosnia and Herzegovina 096-North Macedonia 097-Monthenegro 098-Serbia 1110-EU15TOTALS 1111-EU27TOTALS_2007 2027-EU27TOTALS_2007 2028-EUROPEAN UNION (28) 600-Cyprus Show code History 3		
Advanced selection: By Search By Concernance Select Help Cance		

The layout and output of the table is to be specified in step 2 – select layout and in step 3 - select output.

Last step is to proceed the data selection by clicking on Finish.

Data extraction can be arranged by using tools in the menu as displayed in Figure 4.7.

Figure 4.7: Spreadsheet, Chart, Treemap, Map, Table

Dimensions:						
PRCCODE	Digital camera PRODVAL	5			 ✓ ● f∞ ✓ ● f∞ 	H 4 b b
Spreadsheet	🕕 Chart	Treemap	🚷 Map	Table		
Number of rows to display: 50 Number of columns to display: 50 Refresh						
Remove empty rows: Remove empty columns: Number of decimals:						

4.2 Data on production: PRODCOM

4.2.1 Products and nomenclatures covered

These comprise:

• Manufactured products and some industrial services

- About 3900 products for all these sectors, listed in a specific nomenclature and common to all countries of the European Union
- Certain specific activities, such as subcontracting

Products are classified according to the PRODCOM List (Box 2.2 – PRODCOM List/ Quick links).

4.2.2 Production types (1993 – 2020)

PRODCOM headings are classified according to the combination of production types used that are reported for the product. **The production types** are:

- Sold production: the production sold outside the enterprise during the reference period.
- Total production: both the production sold and the production retained for reuse by the enterprise as input to the manufacture of other products. Since products that are not sold cannot easily be valued, only the volume of Total Production can be reported for these products.

These heading types are used in four combinations, depending on the type of product:

- S Production sold is reported by value and volume. In some cases, no volume unit is defined for a heading. In these cases, only the value is reported.
- T Production sold is reported by value and volume. Total production is reported by volume.
- V Total production is reported by volume. Sold production is not reported.
- I Type I headings are industrial services. Only the value is reported, and this corresponds to the fee paid to the enterprise providing the service.

4.2.3 Available EBS variables (2021 – onwards)

EBS variables on industrial production include the following data:

- The variable 251001 (Sold production) include values of the sold production produced on own account and quantities of the sold production produced on own account.
- The variable 251002 (Production under sub-contracted operations) contain values equal to the fee received by subcontractor/paid by principal and quantities produced under sub-contracted operations.
- The variable 251003 (Actual production) is a sum of quantities of the production on own account and quantities produced under a sub-contracted operations.

The heading type indicates the combination of production types that are required for the heading:

- S Production sold and Production under sub-contracted operations are reported by value and volume. In some cases, no volume unit is defined for a heading. In these cases, only the value is reported.
- T Production sold and Production under sub-contracted operations are reported by value and volume. Actual production is reported by volume.
- V Only Actual production is reported by volume.
- I Type I headings are industrial services. Only the value of sold production is reported, and this corresponds to the fee paid to the enterprise providing the service.

The PRODCOM Dataset including the EBS variables will be published for the first time in July 2022.

4.2.4 Periodicity

PRODCOM data is primarily reported on an annual basis. From 2003 to 2005, production by volume of 88 steel products was reported monthly (not available).

4.2.5 Availability of data

There are two reasons why expected data might not be found in PRODCOM:

- i. The data is confidential. If only a small number of enterprises produce a product in the reporting country, there is a risk that information regarding an individual enterprise might be revealed. If the enterprise does not agree to this, the reporting country declares the production figures confidential. They are transmitted to Eurostat but not published.
- ii. However if several countries declare their production for a heading to be confidential, an EU total can be published because the data for an individual country cannot be inferred. A Confidentiality Charter (¹²) agreed with the Member States defines the conditions under which totals containing confidential data may be published.
- iii. The data is missing. There are a number of reasons why data might be missing: the reporting country does not survey the heading; the reporting country has reason to doubt the accuracy of the data and suppresses it; or the reporting country uses the wrong volume unit or the wrong production type, which means that the data is not comparable with other countries and is suppressed by Eurostat.
- iv. Missing data can be estimated by the reporting countries and in some cases by Eurostat. Estimated national figures contain value 'E' or 'U' in the sold values, sold quantity or total quantity.
- v. The estimated data ('E') signals that the values are reliable estimates, considered accurate enough to be published at the national level. These figures are disseminated and flagged accordingly in dissemination, both at EU level and at the national level.
- vi. The low reliability estimates ('U') are suppressed from the national data published by Eurostat but are included in calculation of the EU totals. These totals are flagged with 'E'.
- vii. Although not published at the national level, U flagged figures are treated as confidential and EU aggregates are rounded in order to protect them.

4.2.6 Data on foreign trade

4.2.6.1 DATA AVAILABLE ON EXTERNAL TRADE IN PRODCOM

PRODCOM is not designed as a tool to distribute the external trade statistics of the Member States of the EU. Complete and detailed statistics for foreign trade are available in Comext, and the data used in PRODCOM are extracted from this base.

PRODCOM contains only the data on foreign trade corresponding to production data and necessary for the calculation of markets. Therefore, only trade relating to sold production is included, and not that relating to total production.

Although production data for some non-EU countries are available (EFTA, acceding and candidate countries) foreign trade data for them is not available in PRODCOM.

Due to confidentiality, a small part of foreign trade information is not available at the most detailed level (CN code, partner country, value or quantity); this means in practice that at this detailed level the information may not be complete. The complete information is only available on a more aggregated level in the Comext database.

In some sectors, PRODCOM is more detailed than the CN. This is necessary in cases where the CN code links to more than one CPA code, since a PRODCOM code is linked to a single CPA code – the first 6 digits of the PRODCOM code are the corresponding CPA code. Consequently, in such cases no external trade data are available corresponding to individual PRODCOM headings. However, to allow PRODCOM data to be compared with trade data, aggregated PRODCOM headings have been introduced for the sectors concerned. These codes always have a "Z" in the seventh position.

^{(&}lt;sup>12</sup>) European statistics Code of Practice — revised edition 2017 - Products Catalogues - Eurostat (europa.eu)

PRODCOM headings, which refer to industrial services and to intermediate products, are not reflected by a CN code either. For these codes it is not possible to calculate market figures (see item 4.2.7.1 'Some remarks concerning the calculation of apparent consumption).

4.2.6.2 HOW PRODUCTION AND FOREIGN TRADE DATA ARE MATCHED

There are several aspects to the matching of production and foreign trade data in PRODCOM:

The products:

In most cases, the PRODCOM code corresponds to one or more CN codes, so the data for all corresponding CN headings is aggregated to get the import and export figures for the PRODCOM code.

If the PRODCOM product does not have an equivalent product in the trade figures (for instance industrial services) no trade data is displayed alongside the production data. Similarly, if the PRODCOM product is a breakdown of a CN code it is not possible to compare with the CN and no trade data is displayed.

The reporting countries:

Normally there is a simple match between Foreign Trade and PRODCOM countries. However, up to 1998 Belgium and Luxembourg made a joint Foreign Trade declaration, whereas in PRODCOM their data was reported separately from the beginning. As it is not possible to distinguish trade from the two countries up to that time, it is all attributed to Belgium when trade data is shown alongside production data.

For EU totals, the trade for all EU Member States is aggregated.

The volume unit:

Foreign Trade is reported by weight and for some products also by another unit (the supplementary unit). Production data is reported by a unit that is kg for some products and by a different unit for other products.

- If the production data is in kg, the trade in tonnes divided by 1000 is displayed.
- If the production data has another unit and it is the same as the foreign trade supplementary unit, the trade data from the supplementary unit is displayed.
- If the production data has a unit that is neither kg nor the same as the foreign trade supplementary unit, the trade data is not displayed.

The foreign trade partner countries:

When comparing production with trade figures we want to consider all the trade passing the external borders of the territory in question. For individual Member States, this means all external trade, i.e. the sum of the trade with all Intra-EU and all Extra-EU partners. However, for EU totals we are only interested in trade leaving and entering the EU as a whole, so the sum of trade with all Extra-EU partners is displayed.

Production type:

The only production type, which can be usefully compared with trade data, is Sold Production. If the production data is for Total Production it is not appropriate to compare it with trade data since some of it refers to production that does not leave the enterprise that produced it.

Therefore, Europroms only displays trade data where the production type is Sold Production.

4.2.7 Apparent consumption

An estimation of consumption, known as apparent consumption, can be made by calculating production + imports - exports. However the results are often unreliable (sometimes producing a negative figure) and this method cannot be recommended.

4.2.7.1 SOME REMARKS CONCERNING THE CALCULATION OF APPARENT CONSUMPTION

- i. Some PRODCOM headings cover a range of products, which means that the composition of production can in some cases differ from that of trade. Obviously, such heterogeneity complicates the integration of production and trade data.
- ii. The coverage of production statistics is not necessarily in line with that of trade statistics. The thresholds above which businesses are represented in these statistics can be different.
- iii. The data presented here relate to a given year and there are temporal delays between the various operations taken into account: production, sale, export. Storage explains a part of these delays, which are reduced or even disappear when the data are considered over several years.
- iv. Where external trade nomenclatures permit, the trade in used and second-hand goods is excluded from the calculation of markets figures. However, in some cases, used goods cannot be distinguished from new ones. In particular the export of used machines (often somewhat renovated) to Third World countries can skew the apparent market.
- v. The Combined Nomenclature has in many areas separate subheadings related to civil aircraft. Classification of goods (which is subject to conditions laid down in Community provisions) is only relevant in relation to the rate of duty. In a number of cases the import and export under these subheadings is not taken into account for the calculation of market data, because they lack the level of detail to be assigned to a single PRODCOM heading.
- vi. The value of exports cannot always be compared directly with that of sold production. The latter is based on the ex-work selling price, whereas exports are evaluated at the time the goods cross the border. In addition, imported goods can be exported again with a different value, either without being modified or after industrial processing (e.g. textile finishing or surface treatment) which is not linked to external trade in Europroms.
- vii. The EBS regulation (Section 31) specifies simplification measures for collecting statistics on intra-Union exports of goods. For 'industrial plant' and 'component part', Member States may exempt under certain conditions the reporting units from providing the statistical information on the quantity of the goods.

4.3 How to access the data in the PRODCOM database

The data can be found in the database on Eurostat's website in Industry, Trade and Services. Clicking on the '+' next to 'Statistics on the production of manufactured goods (prom)' and clicking on the icon gives a choice of the tables: Sold production, exports and imports by PRODCOM List (NACE Rev.2) – annual data (DS-066341) and Total production by PRODCOM List (NACE Rev.2) – annual data (DS-066342).

This icon next to 'Statistics on the production of manufactured goods (prom)' leads to Reference Metadata in Euro SDMX Metadata Structure (ESMS). (See Figure 4.8 below).

Figure 4.8: Database

🖻 📂 Statistics on the production of manufactured goods (prom) 🌆

- Sold production, exports and imports by PRODCOM list (NACE Rev. 2) annual data (DS-066341)
- 👿 Total production by PRODCOM list (NACE Rev. 2) annual data (DS-066342)
- 🐲 Full access to detailed statistics on international trade in goods (Comext) (comext)

4.3.1 DS-066341 and DS-066342

The following dimensions are used in the two tables:

Declarant

The list of reporting countries includes the Member States, EFTA countries and candidate countries. Data for potential candidate countries are available as well.

PRCCODE

The list includes all codes that are valid in at least one year. If a code is selected that is not valid for the year selected, no data will be shown for that code.

Period

The annual data offers the periods 199552 onwards, where 52 is the Comext convention for annual data.

Indicators

4.3.1.1 THE INDICATORS FOR SOLD PRODUCTION, EXPORTS AND IMPORTS (DS-066341)

- EXPQNT: This field gives the volume of exports derived from the External Trade statistics.
- EXPVAL: This field gives the value of exports in Euro, derived from the External Trade statistics.
- IMPQNT: This field gives the volume of imports derived from the External Trade statistics.
- IMPVAL: This field gives the value of imports in Euro, derived from the External Trade statistics.
- PQNTBASE: for EU totals, this gives the rounding base used if PROD_QUANTITY is rounded or contains a rounded element. PROD_QUANTITY should be interpreted as lying between PROD_QUANTITY
 PROD_QUANTITY_BASE and PROD_QUANTITY + PROD_QUANTITY_BASE. When no rounding is applied, PROD_QUANTITY_BASE is set to zero.
- PQNTFLAG: This field indicates the availability of the volume data. Possible values are blank (data is available), '.' data is not available ':C' data is confidential, ':E' reliable estimate considered accurate enough to be published at the national level, ':U' low reliability estimate suppressed from the national data published by Eurostat but included in calculation of the EU totals; these totals are flagged with 'E',':R' the data has been rounded using the rounding base given in PROD_QUANTITY_BASE, '-' not applicable.
- PRODQNT: This field gives the volume of production in the unit indicated in UNIT.
- PVALBASE: For EU totals, this gives the rounding base used if PROD_VALUE is rounded or contains a rounded element. PROD_VALUE should be interpreted as lying between PROD_VALUE PROD_VALUE_BASE and PROD_VALUE + PROD_VALUE_BASE. When no rounding is applied, PROD_VALUE_BASE is set to zero.
- PVALFLAG: This field indicates the availability of the volume data. Possible values are blank (data is available), ':' data is not available, ':C' data is confidential, ':E' reliable estimate considered accurate enough to be published at the national level, ':U' low reliability estimate suppressed from the national data published by Eurostat but included in calculation of the EU totals; these totals are flagged with 'E', ':R' the data has been rounded using the rounding base given in PROD_VALUE_BASE, '-' not applicable.
- PRODVAL: This field gives the value of production in Euro.
- QNTUNIT: This field indicates the unit in which the volume data is expressed. The volumes of production, imports and exports are all expressed in the unit shown.

4.3.1.2 THE INDICATORS FOR TOTAL PRODUCTION (DS-066342)

- PQNTBASE: For EU totals, this gives the rounding base used if PROD_QUANTITY is rounded or contains a rounded element. PROD_QUANTITY should be interpreted as lying between PROD_QUANTITY PROD_QUANTITY_BASE and PROD_QUANTITY + PROD_QUANTITY_BASE. When no rounding is applied, PROD_QUANTITY_BASE is set to zero.
- PQNTFLAG: This field indicates the availability of the volume data. Possible values are blank (data is available), ':' data is not available, ':C' data is confidential, ':E' reliable estimate considered accurate enough to be published at the national level, ':U' low reliability estimate suppressed from the national data published by Eurostat but included in calculation of the EU totals; these totals are flagged with

'E', ':R' the data has been rounded using the rounding base given in PROD_QUANTITY_BASE, '-' not applicable.

- PRODQNT: This field gives the volume of production in the unit indicated in UNIT
- QNTUNIT: This field indicates the unit in which the volume data is expressed. The volumes of production, imports and exports are all expressed in the unit shown

The indicators IMPORTS and EXPORTS are always blank for countries that are not EU Member States.

If data for a country/period have not been loaded, all the indicators are blank.

4.4 Rounding of EU totals

Confidential EU totals are replaced by rounded figures, so that some information can be provided while maintaining sufficient uncertainty to protect the underlying confidential national data. The rounded figure is accompanied by a value in the "Base" indicator, which shows the rounding base used. This means that the total indicated should be interpreted as being in the range R-B to R+B, where R is the rounded total and B is the base.

4.5 Confidentiality in PRODCOM

Some national PRODCOM data and EU aggregates are confidential. Confidential data is suppressed and is only available for the PRODCOM staff or other officials associated with PRODCOM according to the Eurostat Rules of protection of confidential data. EU aggregates are published with rounding applied, in order to protect national confidential data.

Getting in touch with the EU

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Open data from the EU

The EU Open Data Portal (http://data.europa.eu/euodp/en) provides access to datasets from the EU. Data can be downloaded and reused for free, for both commercial and non-commercial purposes.

European business statistics user's manual for PRODCOM

This manual seeks to serve statistical experts and users alike as a comprehensive reference to the PRODCOM statistics built upon the Commission Implementing Regulation EU 2020/1197 (EBS Regulation). It provides an overview of the production of manufactured goods carried out by enterprises on the national territory of the reporting countries while highlighting the features introduced by a new regulatory framework. Mainly, the manual describes the PRODCOM classification, PRODCOM dataset and its dissemination. The PRODCOM team in consultation with national experts drafted this document.

For more information https://ec.europa.eu/eurostat/

