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**DIRECTORATE FOR SCIENCE, TECHNOLOGY AND INDUSTRY
STEEL COMMITTEE**

**QUESTIONNAIRE FOR THE ANNUAL REPORT ON THE IRON AND STEEL
INDUSTRY IN 1997**

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NOTE FROM THE SECRETARIAT

1. The questionnaire relating to the annual statistical report covering the year 1997 is attached. This questionnaire has been modified according to the decision taken by the Working Party of the Steel Committee at its 34th meeting.
2. All Delegations (including Member countries of the European Union) are asked to return this questionnaire to the Secretariat by **27 July 1998**, with as complete responses as can be provided by that date; any remaining information should be supplied as soon as possible thereafter.
3. **All tonnage figures should be given in metric tonnes. Value figures should be in US dollars and in the national currency.**
4. **Delegates are requested to note that on pages 8 and 10, indices are calculated with 1990=100.**

1) **IRON AND STEEL PRODUCTION IN 1997**

Unit: '000 tonnes

(a) Pig iron(1)

(b) Crude steel:

i) Total

ii) of which continuously cast

(1) Pig iron, Spiegeleisen and high carbon ferro-manganese produced in blast furnaces and electric furnaces.

2) **BREAKDOWN OF CRUDE STEEL OUTPUT IN 1997 BY PROCESS**

Process	'000 tonnes	% of total
Openhearth		
Electric		
Pure oxygen steel processes(1)		
Other(2)		
TOTAL		
[equal to figure given in 1(b)(i)]		

(1) LD, LD-AC, LWS, OBM, OLP, Kaldo, Rotor, etc.

(2) Please specify the process

3) **TOTAL PRODUCTION OF ALLOY STEELS** (see definition Annex II)

In crude steel terms, i.e. production in ingot form or for use in continuous casting plus any production of liquid steel for castings..

Unit: '000 tonnes

<u>Year 1996</u>	<u>Year 1997</u>
.....

4) **PRODUCTION OF HIGH SPEED AND STAINLESS OR HEAT-RESISTING STEELS IN 1997** (as defined in Appendix II)

	High speed steels (tonnes)	Stainless or heat-resisting steels (tonnes)
Production of crude steel in ingot form (1) and for use in continuous casting
Production (if any) of liquid steel for castings
Total production	-----	-----

(1) Including ingots for forging.

5) **ROW MATERIAL PRODUCTION IN 1997**(a) Production of merchantable iron ore (1)

'000 tonnes

Less than 42% Fe

42% Fe to 58% Fe

58% Fe and over

(b) Coke-oven coke (2)

Notes:

(1) As delivered from the mines, including sinter, pellets, etc. produced at the mines.

(2) Total national output including beehive coke and consumption at the coke ovens.

6) **RAW MATERIAL CONSUMPTION IN 1997**(a) Iron ore (1)

'000 tonnes

Less than 42% Fe

42% Fe and over

Total

.....

(b) Manganese ore(c) Coke-oven coke (1)Total consumption by the iron and
steel production

of which in pig-iron production (2)

Notes:

(1) Including beehive coke. Consumption by the iron and steel industry only.

(2) Pig-iron, Spiegeleisen and high carbon ferro-manganese produced in blast furnaces and electric furnaces.

7) **APPARENT HOME CONSUMPTION OF CERTAIN ROLLED PRODUCTS**

(i.e. production plus imports minus exports)

N.B. The calculation should take into account imports of semi-finished products for rerolling, and should also include production intended for delivery to processing departments belonging to the iron and steel industry as defined in Appendix I.

Unit: '000 tonnes

Products	1996	1997
Heavy sections		
Light sections		
Wide rods		
Strip, hot-rolled (including tube strip)		
Universals and plates, 3mm thick and over, hot and cold-rolled		
Sheets under 3mm thick, hot and cold-rolled, including coated sheets		
Tinplate and blackplate		

8) **TRADE IN ALLOY STEELS IN 1997** (as defined in Appendix II)

Unit: tonnes

Alloy steels broken down by main categories of products	Imports	Exports
1. Ingots and semis (1)		
2. Wire rods		
3. Bars, angles, shapes and sections		
4. Hoop and strip		
5. Plates and universals 3 mm thick or more (2)		
6. Sheets less than 3 mm thick (2)		
7. Other flat rolled products		
8. Others		
9. Total alloy steels		
<i>of which:</i>		
10. High speed steels		
11. Stainless or heat-resisting steels		
12. Others		

N.B.: Figures for lines 1-9 should be taken from official statistics of foreign trade. In the case of lines 10-11, export figures could be drawn from statistics relating to producers' deliveries.

(1) Including coils for rerolling, but excluding scrap ingots.

(2) Hot and cold rolled.

9) **OUTPUT PER MAN/YEAR**

Index of crude steel output per man/year in the iron and steel industry in 1997 (**1990=100**).

N.B. In order to ensure that the figures of the different countries are as far as possible comparable, delegations are asked to provide as an index, with 1990 = 100, the figures of output per man/year calculated as:

Crude steel production divided by the number of process workers (in production departments).

1990	1995	1996	1997
100			
.....

10) **INVESTMENT**

(New work and modernisation, excluding maintenance and routine repairs. Financial participation and investments not directly related to the products listed in Appendix I, as well as workers' housing, are also excluded.)

a) Annual investment in the iron and steel industry (i.e. sums actually paid during the year and not the value of the work in progress).

	<u>1996</u>	<u>1997</u>
Millions \$US
National currency

b) Breakdown of actual annual investment in value added as a percentage by sector

	Raw materials and preparation of furnace burdens	Pig iron	Crude steel	Continuous casting	Rolling mills			Ancillary plant and miscellaneous
					Flat products (1)	Other	Total	
US\$	1996 1997							
National 1996 currency 1997								
% 1997								

(1) Flat products include:
 --hoop and strip, including tube strip;
 --all plate and sheet.

11) **SUPPLY CONDITIONS AND DRAW MATERIAL PRICES**

Delivered prices (1) of iron ores and scrap

(Index based on the national currency: actual figures should be indicated per metric tonne in United States dollars and in the national currency.) **1990=100**

Month	Imported Iron Ores					
	42% Fe and over			Less than 42% Fe		
	Index	\$US	National currency	Index	\$EU	National currency
January 1990	100			100		
January 1995						
January 1996						
January 1997						
April 1997						
July 1997						
October 1997						
January 1998						

Month	Scrap					
	Domestic			Imported		
	Index	\$US	National currency	Index	\$US	National currency
January 1990	100			100		
January 1995						
January 1996						
January 1997						
April 1997						
July 1997						
October 1997						
January 1998						

(1) The domestic and imported prices should be the prices for delivery to the blast furnace or steel works; if they are not, please state the basis on which the prices are reported. (F.o.b. prices should not be used for imported materials as it is important that prices include the element of ocean freight whenever this arises.)

12) **BASIC PRICES OF CERTAIN IRON AND STEEL PRODUCTS** (1)

Domestic market prices, excluding taxes, per metric tonne in US dollars and in the national currency.

Dates	Merchant steel		Joists		Hoop and strip		Wire rod		Heavy plates		Cold-rolled sheets (2)	
	US\$	Nat. Cur.	US\$	Nat. Cur.	US\$	Nat. Cur.	US\$	Nat. Cur.	US\$	Nat. Cur.	US\$	Nat. Cur.
<u>1997</u>												
1st January												
1st February												
1st July												
1st October												
<u>1998</u>												
1st January												

(1) Important Note: The nature of the prices should be indicated, e.g. ex-works or delivered price, basing points, etc..

(2) Sheet of 1 mm thickness.

APPENDIX 1

**DEFINITION OF THE IRON AND STEEL INDUSTRY
USED IN THIS REPORT**

Position	Iron and steel products description
1996 Harmonised System	
	Raw materials for the production of iron and steel (1)
26.01.11,12	Iron ore (except pyrites)
72.04	Ferrous scrap
26.02.00	Manganese ore
	Pig iron and ferro-alloys
72.01	Pig iron and Speigeleisen
72.02.11	Carburised ferro-manganese
72.03	Sponge iron or steel
	Raw and semi-finished products of iron, ordinary or specialty steel, including re-usable and re-rollers' material
72.06	Liquid steel, poured or not poured in ingots, and other primary forms
72.07	Semi-finished products of iron or non-alloy steel: blooms, billets, slabs and sheet bars.
72.18	Stainless steel in ingot or other primary forms; semi-finished products of stainless steel.
72.24	Other alloy steel in ingots or other primary forms; semi-finished products of other alloy steel.
72.08.10,25,26,27	Wide hot rolled coils
72.08.36,37,38,39	
72.19.11,12,13,14	

(1) Excluding other raw materials not specified elsewhere for pig iron and steel making, particularly heat-resisting steels.

Hotfinishedproducts of iron or non-alloy steel

73.02	Rails, sleepers, fishplates and sole-plates
72.16.31,33,40,50 72.16.61,99 73.01	Sections of 80 mm or more, and sheet piling
72.16.10,21,22	Sections of less than 80 mm
72.13	Wire-rod
72.14,72.15	Bars and rods
72.11.13,14,19	Hot rolled hoop and strip
72.08.51,52,53 72.09.15,25	Plates and universals of a thickness of 3 mm or more hot-rolled and cold-rolled
72.08.40,54,90 72.09.16,17,18,26,27,28,90 72.11.23,29,90	Sheets of a thickness of less than 3 mm hot-rolled and cold-rolled including plated or coated.
72.12.10	Tinplate, blackplate.

Finished products of stainless or alloy steel

72.21,72.27	Wire rod
72.22,72.28	Bars, rods and sections.
72.20,72.26	Hoop and strip
72.19.21,22,23,31,32	Plates of a thickness of 3 mm or more.
72.19.24,33,34,35	Sheet of a thickness of less than 3 mm.
72.19.90	Other flat rolled products
72.23;72.29	Other

APPENDIX II

DEFINITION USED FOR ALLOY STEELS

These steels are defined in notes 1(e), 1(f), to chapter 72 of Harmonised System nomenclature of the World Customs Organisation, Section XV (1996); only the products listed in Appendix I should be taken into account.

DEFINITION OF HIGH SPEED STEELS AND STAINLESS

OR HEAT-RESISTING STEELS

High speed steels are alloy steels containing, either with or without other alloying elements, at least two of the following three elements: tungsten, molybdenum and vanadium, with a total content of these elements considered together of not less than 7 percent by weight and containing more than 0.6 percent carbon and 3 to 6 percent chromium.

Stainless or heat-resisting steels are steels with a chromium content of not less than 10.5 percent and a carbon content below 1.2 percent, with or without other alloying elements.