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# List of Products

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- 100 Cupolas, cokeless
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- 180 Blowing-In Equipment for Carbo Fer
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- 430 Blowing-In Equipment for Filter Dusts
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- 450 Inert Gas Systems for EAF and EIF
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- 500 Graphite Electrodes
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- 825 Emergency Iron Collecting Reservoirs
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- 848 Cleaning Device and Gripper for Deslagging - Induction Furnaces
- 850 Crucibles
- 860 Inert Gas Systems
- 870 Silicon Carbide Pots
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- 890 Crucibles, Pots
- 895 Power Supply, Plasma Generators
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- 920 Breakage Equipment for Cupolas, Crucibles, Pots, Torpedo Ladles and Ladles
- 923 Lost Formers
- 930 Mixers and Chargers for Refractory Mixes
- 940 Charging Units for Furnaces
- 950 Gunning for Relining of Cupolas
- 954 Ramming Mix Formers
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- 982 Wear Measuring and Monitoring for Refractory Lining
- 985 State Diagnosis of Refractory Lines

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- 1000 Boron-Nitride Isolation
- 1005 Sand Gaskets, Isolation Materials (up to 1260 °C)
- 1009 Running and Feeding Systems (Gating Systems)
- 1010 Running and Feeding Systems (Runner Bricks, Centre Bricks, Sprue Cups)
- 1020 Fibrous Mould Parts
- 1021 Fibrous Mould Parts up to 1750 °C
- 1030 Refractory Castables
- 1040 Refractories, in general
- 1050 Insulating Refractory Bricks
- 1060 Refractory Cements
- 1070 Refractories for Aluminium Melting Furnaces
- 1080 Refractory Materials for Anode Kilns
- 1090 Refractory Materials for Melting Furnaces, in general
- 1100 Refractory Materials for Holding Furnaces
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- 1109 Precasts
- 1110 Pouring Lip Bricks
- 1113 Fibreglass Mats
- 1114 Slip Foils for Glowing Materials
- 1117 High Temperature Mats, Papers, Plates, and Felts
- 1120 Induction Furnace Compounds
- 1123 Insulating and Sealing Panels up to 1200 °C
- 1125 Insulating Fabrics up to 1260 °C
- 1128 Insulating Felts and Mats up to 1260 °C
- 1130 Insulating Products
- 1140 Insulating Products (such as Fibres, Micanites)
- 1150 Insulating Bricks
- 1155 Ceramic Fibre Mats, Papers, Plates, and Felts
- 1160 Ceramic Fibre Modules
- 1169 Ceramic Fibre Substitutes
- 1170 Ceramic Fibre Products
- 1180 Loamy Sands
- 1190 Carbon Bricks
- 1200 Cupola and Siphon Mixes
- 1210 Cupola Bricks
- 1220 Micro Porous Insulating Materials
- 1222 Nano Porous Insulating Materials
- 1225 Furnace Door Sealings, Cords, and Packings
- 1230 Furnace Linings
- 1240 Ladle Refractory Mixes
- 1250 Ladle Bricks
- 1260 Plates, free from Ceramic Fibres
- 1261 Plates made of Ground Alkali Silicate Wool
- 1270 Acid and Silica Mixes
- 1280 Fire-Clay Mixes and Cements
- 1290 Fire-Clay Bricks
- 1310 Porous Plugs
- 1312 Stirring Cones for Steel, Grey Cast Iron and Aluminium
- 1320 Moulding Mixtures for Steel Casting

- 1330 Ramming, Relining, Casting, Gunning, and Vibration Bunks
- 1333 Ramming, Casting, Gunning, and Repairing Compounds
- 1340 Plugs and Nozzles
- 1345 Textile Fabrics up to 1260 °C
- 988 Substitutes of Aluminium Silicate Wool
- 990 Coating and Filling Materials, Protective Coatings

#### 04.03. Refractory Raw Materials

- 1350 Glass Powder
- 1360 Loamy Sands
- 1370 Magnesite, Chrom-Magnesite, Forsterite
- 1390 Chamotte, Ground Chamotte
- 1400 Clays, Clay Powders

#### 04.04. Refractory Building

- 1410 Bricking-Up of Furnaces
- 1420 Refractory Building/Installation
- 1430 Fire and Heat Protection
- 1435 Furnace Door Joints
- 1440 Furnace Reconstruction
- 1450 Repairing of Furnaces and Refractories
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- 1462 Maintenance of Refractory Linings

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- 1480 Lignite Coke
- 1490 Foundry Coke
- 1510 Petroleum Coke

##### 05.02. Additives

- 1520 Desulphurization Compounds
- 1530 Felspar
- 1540 Fluorspar
- 1550 Casting Carbide
- 1560 Glass Granulate
- 1570 Lime, Limestones
- 1575 Briquets for Cupolas
- 1580 Slag Forming Addition

##### 05.03. Gases

- 1590 Argon
- 1600 Oxygen
- 1610 Inert Gases
- 1620 Nitrogen
- 1622 Hydrogen

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- 1640 Lignite Coke
- 1650 Electrode Butts
- 1660 Electrode Graphite
- 1665 Desulfurizer
- 1670 Graphite
- 1680 Coke Breeze, Coke-Dust
- 1700 Petroleum Coke
- 1710 Silicon Carbide
- 3261 Automatic Powder Feeding

##### 05.05. Melting Fluxes for NF-Metals

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- 1730 Desoxidants, in general
- 1740 Degassing Fluxes
- 1750 Desulphurisers
- 1760 Charcoal
- 1770 Refiners
- 1780 Fluxing Agents
- 1785 Melt Treatment Agents
- 1790 Fluxing Agents

#### 06 Metallic Charge Materials for Iron and Steel Castings and for Malleable Cast Iron

##### 06.01. Scrap Materials

- 1810 Cast Scrap
- 1811 Cast Turnings
- 1813 Cuttings/Stampings
- 1817 Steel Scrap

##### 06.02. Pig Iron

- 1820 Hematite Pig Iron
- 1830 Foundry Pig Iron
- 1838 DK Pig Iron
- 1840 DK-Perlit Special Pig Iron
- 1880 DK Pig Iron for Malleable Cast Iron
- 1898 DK Pig Iron, low-carbon, Quality DKC
- 1900 DK-Perlit Special Pig Iron, Low Carbon, DKC Quality
- 1936 DK Phosphorus Alloy Pig Iron
- 1940 DK-Perlit Special Pig Iron, Type Siegerlaender
- 1950 Spiegel Eisen
- 1970 Blast Furnace Ferro Silicon

##### 06.03. Specials (Pig Iron)

- 1990 Foundry Pig Iron
- 2000 Hematite Pig Iron
- 2010 Sorel Metal
- 2020 Special Pig Iron for s. g. Cast Iron Production
- 2030 Special Pig Iron for s.g. Cast Iron
- 2040 Steelmaking Pig Iron

##### 06.04. Ferro Alloys

- 2050 Ferro-Boron
- 2060 Ferro-Chromium
- 2070 Ferroalloys, in general
- 2080 Ferro-Manganese
- 2090 Ferro-Molybdenum
- 2100 Ferro-Nickel
- 2110 Ferro-Niobium
- 2120 Ferro-Phosphorus
- 2130 Ferro-Selenium
- 2140 Ferro-Silicon
- 2150 Ferro-Silicon-Magnesium
- 2160 Ferro-Titanium
- 2170 Ferro-Vanadium
- 2180 Ferro-Tungsten
- 2190 Silicon-Manganese

##### 06.05. Other Alloy Metals and Master Alloys

- 2200 Aluminium Granulates
- 2210 Aluminium, Aluminium Alloys
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- 2230 Aluminium Master Alloys
- 2250 Calcium Carbide
- 2260 Calcium-Silicon
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## SUPPLIERS GUIDE

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 2290 Cobalt  
 2300 Chromium Metal, Aluminothermic  
 2310 Deoxidation Alloys  
 2318 High-grade Steel  
 2320 Iron Powder  
 2350 Copper  
 2360 Cupola Briquets  
 2370 Alloying Metals, in general  
 2380 Alloying Additives  
 2390 Magnesium, Magnesium Alloys  
 2410 Manganese Metal  
 2420 Manganese Metal, Electrolytic  
 2430 Molybdenum  
 2440 Molybdenum Alloys  
 2450 Molybdenum Oxide  
 2460 Nickel, Nickel Alloys  
 2470 Nickel-Magnesium  
 2490 Furnace Additives  
 2500 Ladle Additives  
 2510 High-Purity Iron, Low-Carbon  
 2520 Sulphuric Iron  
 2530 Silicon Carbide  
 2540 Silicon Metal  
 2545 Silicon Metal Granules  
 2550 Special Alloys  
 2570 Titanium Sponge  
 2575 Master Alloys for Precious Metals  
 2580 Bismuth  
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2620 Magnesium Treatment Alloys for s. g. Cast Iron  
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 2645 Injection Appliances for Cored Wire  
 2650 Cored Wires for Secondary and Ladle Metallurgy  
 2653 Cored Wires for Magnesium Treatment  
 2656 Cored Wires for Inoculation of Cast Iron Melts  
 2658 Stream Inoculants  
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 2670 Injection Appliances  
 2680 Inoculants and Inoculation Alloys, in general  
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07

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 2750 Brass Ingots  
 2770 High-Grade Zinc Alloys

2790 Copper  
 2800 Copper Alloys  
 2810 Magnesium, Magnesium Alloys  
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 2840 Aluminium-Copper  
 2852 Aluminium Master Alloys  
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 2890 Calcium  
 2891 Calcium Carbide, Desulphurisers  
 2893 Chromium-Copper  
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 2910 Grain Refiner  
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 2935 Alloy Biscuits  
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 2970 Phosphor-Copper  
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 2990 Silicon-Copper  
 3000 Silicon Metal  
 3010 Strontium, Strontium Alloys  
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 3030 Refining Agents for Aluminium  
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08

**Plants and Machines for Moulding and Coremaking Processes**

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 3090 Pneumatic Moulding Machines  
 3100 Automatic Moulding Machines  
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 3140 Moulding Plants and Machines for Cold-Setting Processes  
 3150 Moulding Machines, Boxless  
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 3180 Core Shooters  
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 3210 Shell Moulding Machines  
 3220 Shell Moulding Machines and Hollow Core Blowers  
 3225 Multi-Stage Vacuum Process

3230 Multi-Stage Vacuum Processes for Pressure Die Casting Processes  
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 3260 Pinlift Moulding Machines  
 3270 Rollover Moulding Machines  
 3280 Vacuum Moulding Machines and Processes  
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 3350 Electrical and Electronic Controlling Devices for Moulding Machines  
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 3360 Vents  
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 3400 Pattern Plates  
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 3430 Core Setting Equipment  
 3440 Core Removal Handling  
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 3470 Shell Mould Sealing Equipment and Presses  
 3480 Mixers for Blackings and Coatings  
 3500 Plastic Blowing and Gassing Plates  
 3510 Coating Equipment  
 3512 Coating Dryers  
 3520 Equipment for Alcohol-based Coatings  
 3525 Coating Stores and Preparation Equipment  
 3530 Coating Mixers, Coating Preparation Equipment  
 3540 Screen Vents, front Armoured  
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09

**Moulding Sands**

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 3700 Fused Silica  
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 3710 Silica Flour  
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 3730 Zircon Powder  
 3740 Zircon Sands

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 4000 Quick-Setting Binders  
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 4020 Silica Sol  
 4030 Binders for the SO<sub>2</sub> Process  
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 4110 Coal Dust  
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4200 Mould Coating  
 4210 Black Washes  
 4220 Graphite Blackings  
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 4230 Core Coatings  
 4240 Core Blackings  
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 4266 Coatings (with metallurgical effects)  
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 4280 Steel Mould Coatings  
 4290 Talc  
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 4420 Moulding Sand Testing Equipment, in general  
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4446 Sand Preparation and Reclamation  
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 4450 Nozzles for Moistening  
 4459 Continuous Mixers  
 4460 Continuous Mixers for Cold-Setting Sands  
 4470 Aerators for Moulding Sand Ready-to-Use  
 4480 Sand Preparation Plants and Machines  
 4490 Sand Mullers  
 4500 Measuring Instruments for Compaction, Shear Strength, and Deformability  
 4510 Measuring Instruments for Mouldability Testing (Moisture, Density, Temperature)  
 4520 Mixers  
 4550 Sand Mixers  
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 4567 Vibration Sand Lump Crusher

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 4700 Reclamation Plants for Core Sands  
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 4730 Sand Reclamation Plants  
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 4760 Separation of Chromite/Silica Sand

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 4790 Reclamation Plants, Mechanical  
 4800 Reclamation Plants, Mechanical/Pneumatic  
 4810 Reclamation Plants, Mechanical-Thermal  
 4820 Reclamation Plants, Mechanical/Thermal/Mechanical  
 4830 Reclamation Plants, wet  
 4840 Reclamation Plants, Thermal  
 4850 Reclamation Plants, Thermal-Mechanical

**11 Moulding Auxiliaries**

4880 Mould Dryers  
 4890 Foundry Nails, Moulding Pins  
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 4920 Mould Hardener  
 4950 Guide Pins and Bushes  
 4965 High Temperature Textile Fabrics up to 1260 °C  
 4970 Ceramic Pouring Filters  
 4980 Ceramic Auxiliaries for Investment Foundries  
 4990 Ceramic Cores for Investment Casting - Gunned, Pressed, Drawn  
 4998 Cope Seals  
 5000 Core Benches  
 5007 Core Putty Fillers  
 5010 Core Wires  
 5020 Cores (Cold-Box)  
 5030 Cores (Shell)  
 5040 Core Boxes  
 5050 Core Box Dowels  
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 5080 Core Loosening Powder  
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5170 Carbon Dioxide  
(CO2 Process)  
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Devices  
5210 Coal Dust and Small Coal  
5220 Chill Nails  
5230 Chill Coils  
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5260 Shell Mould Sealers  
5270 Mould Dryers, Micro-Wave  
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### 11.01. Moulding Bay Equipment

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5365 Glass Fabric Filters  
5370 Insulating Products and Fibres  
5375 Insulating Sleeves  
5380 Ceramic Filters  
5390 Ceramic Breaker Cores  
5400 Exothermic Mini-Feeders  
5405 Non-Ceramic Foam Filters  
5410 Ceramic Dross Filters  
5416 Riser (exothermic)  
5418 Riser (insulating)  
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5430 Exothermic Feeding Compounds

## 13 Casting Machines and Equipment

5436 Pouring Machines and  
Equipment  
5437 Casting Machine,  
without Heating

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5440 Aluminium Dosing Furnaces  
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- 11150 Foundry Materials, in general
- 11155 Heat-protecting and Insulating Fabrics up to 1260 °C
- 11160 Hydraulic Oil, Flame-resistant
- 11165 Marking and Identification
- 11170 Signs for Machines
- 11175 Fire-proof Protection Blankets, -mats, and -curtains
- 11180 Screen and Filter Fabrics

#### 26.04. Job Coremaking

- 11182 Inorganic Processes
- 11183 Hot Processes
- 11184 Cold Processes

### 27 Consulting and Service

- 11186 Ordered Research
- 11190 CAD Services
- 11200 Interpreters
- 11202 Diecasting, Optimization of Mould Temperature Control
- 11205 EDP Consulting
- 11208 Wage Models
- 11210 Emission, Immission, and Workplace Measurements
- 11211 E-Business
- 11212 eProcurement
- 11213 Technical Literature
- 11215 Investment Casting Engineering
- 11220 Foundry Consulting
- 11230 Foundry Legal Advice
- 11240 Lean Foundry Organization
- 11250 Foundry Planning
- 11252 Greenfield Planning
- 11253 Casting, Construction and Consulting, Optimizing of Mould Core Production and Casting Techniques
- 11260 Nuclear Engineering Consulting
- 11278 Customer Service for Temperature Control Units and Systems
- 11280 Customer Service for Diecasting Machines
- 11283 Jobbing Foundry
- 11286 Efficiency of Material (Consulting)
- 11290 Management of Approval Procedures
- 11291 Management Consulting
- 11292 Machining
- 11293 Metallurgical Consulting
- 11294 Patinating
- 11295 Human Resources Services
- 11296 Personnel Consulting
- 11298 Process Optimization
- 11299 Testing Status and Safety Labels
- 11300 Rationalization
- 11301 M&A Consulting
- 11303 Recruitment
- 11305 Centrifugal Casting Engineering
- 11310 Simulation Services
- 11320 Castings Machining
- 11325 Steel Melting Consulting
- 11330 Technical Translation and Documentation

- 11336 Environmental Protection Management Systems (Environmental Audits)
- 11339 Restructuring
- 11340 Environmental Consulting
- 11342 Business Consultancy
- 11343 Leasing of Industrial Vacuum Cleaners
- 11345 Heat Treatment
- 11346 Associations
- 11360 Material Consulting
- 11370 Material Advices
- 11380 Time Studies
- 11382 Carving

### 28 Castings

- 11387 Aluminium Casting
- 11389 ADI
- 11390 Aluminium Pressure Diecasting
- 11400 Aluminium Permanent Moulding (Gravity Diecasting)
- 11410 Aluminium Sand Casting
- 11420 Billet Casting
- 11430 Cast Carbon Steel, Alloy and High-alloy Cast Steel
- 11440 Non-ferrous Metal Gravity Diecasting
- 11450 Pressure Diecasting
- 11460 High-grade Investment Cast Steel
- 11462 High-grade Steel Casting
- 11470 High-grade Steel Castings
- 11472 High-grade Centrifugal Cast Steel
- 11480 Ingot Casting
- 11485 Castings
- 11489 Rolled Wire
- 11490 Grey Cast Iron
- 11492 Large-size Grey Iron Castings
- 11496 Direct Chill Casting
- 11498 Art Casting
- 11499 Light Metal Casting
- 11501 Magnesium Pressure Diecasting
- 11510 Brass Pressure Diecasting
- 11520 Non-ferrous Metal Sand Casting
- 11525 Prototype Casting
- 11530 Sand Casting SAND CASTING
- 11539 Centrifugal Casting
- 11540 Spheroidal Iron
- 11547 Spheroidal Graphite Cast Iron
- 11550 Steel Castings
- 11552 Continuously Cast Material
- 11553 Thixoforming
- 11555 Full Mold (lost-foam) Casting
- 11558 Rolls
- 11560 Zinc Pressure Diecasting
- 11570 Cylinder Pipes and Cylinder Liners

### 29 By-Products

- 11580 Sporting Field Sands

### 30 Data Processing Technology

- 11700 Mold Filling and Solidification Simulation

- 11800 Simulation Programmes for Foundry Processes
- 11820 Software for Foundries

### 31 Foundries

- 11850 Foundries, in general

#### 31.01. Iron, Steel, and Malleable-Iron Foundries

- 11855 Iron Foundries
- 11856 Steel Foundries
- 11857 Malleable-Iron Foundries

#### 31.02. NFM Foundries

- 11860 Heavy Metals Foundries
- 11861 Die Casting Plants
- 11862 Light Metal Casting Plants
- 11863 Permanent Mold Foundry

### 31 Additive manufacturing / 3-D printing