

## List of products/exhibits

Industrial Furnaces, Industrial Heat Treatment Plants and thermal processes for:

|          |                                   |          |                                       |      |                                      |
|----------|-----------------------------------|----------|---------------------------------------|------|--------------------------------------|
| <b>1</b> | <b>Precious Metals</b>            | 6.4      | Other thermal processes               | 8.6  | Vacuum carburizing                   |
| 1.1      | Melting                           | <b>7</b> | <b>Non-ferrous metals</b>             | 8.7  | Bottom pressure carburizing          |
| 1.2      | Heat Treating                     | 7.1      | Coating                               | 8.8  | Plasma carburizing                   |
| 1.3      | Heating                           | 7.2      | Enameling                             | 8.9  | Other carburizing processes          |
| 1.4      | Other thermal processes           | 7.3      | Electroplating                        | 8.10 | Coating                              |
| <b>2</b> | <b>Ores</b>                       | 7.4      | Plastic coating                       | 8.11 | Inorganic coating                    |
| 2.1      | Calicinating                      | 7.5      | Varnish and lacquer drying            | 8.12 | Enamelling                           |
| 2.2      | Reducing                          | 7.6      | Other coating processes               | 8.13 | Electroplating                       |
| 2.3      | Roasting                          | 7.7      | CIM (Chemical Injection Moulding)     | 8.14 | Plastic coating                      |
| 2.4      | Sintering                         | 7.8      | Pouring                               | 8.15 | Varnish and lacquer drying           |
| 2.5      | Drying                            | 7.9      | Brazing                               | 8.16 | Plasma spraying                      |
| 2.6      | Other thermal processes           | 7.10     | MIM (Metal Injection Moulding)        | 8.17 | Galvanizing                          |
| <b>3</b> | <b>Ferrites</b>                   | 7.11     | Refining                              | 8.18 | Tin coating                          |
| 3.1      | Homogenizing annealing            | 7.12     | Reducing                              | 8.19 | Other coating processes              |
| 3.2      | Orientation annealing             | 7.13     | Purification                          | 8.20 | CVD                                  |
| 3.3      | Sintering                         | 7.14     | Melting                               | 8.21 | Pouring                              |
| 3.4      | Pre-sintering                     | 7.15     | Smelting                              | 8.22 | Welding                              |
| 3.5      | Other thermal processes           | 7.16     | Alloying                              | 8.23 | MIM (Metal Injection Moulding)       |
| <b>4</b> | <b>Glass, Enamel</b>              | 7.17     | Remelting                             | 8.24 | Surface Treating                     |
| 4.1      | Cooling                           | 7.18     | Cleaning                              | 8.25 | Carburizing                          |
| 4.2      | Firing                            | 7.19     | Other                                 | 8.26 | Carbonitriding                       |
| 4.3      | Melting                           | 7.20     | Sintering                             | 8.27 | Hardening                            |
| 4.4      | Drying                            | 7.21     | Spray Forming                         | 8.28 | Implantation                         |
| 4.5      | Heat Treating                     | 7.22     | Drying                                | 8.29 | Nitriding                            |
| 4.6      | Heating                           | 7.23     | Heat treating                         | 8.30 | Nitrocarburizing                     |
| 4.7      | Other thermal processes           | 7.24     | Precipitation hardening               | 8.31 | Oxidation                            |
| <b>5</b> | <b>Hard Metals</b>                | 7.25     | Stress-relieving annealing            | 8.32 | Patenting                            |
| 5.1      | CIM (Chemical Injection Moulding) | 7.26     | Homogenization annealing              | 8.33 | PVD                                  |
| 5.2      | Debinding                         | 7.27     | Solution annealing                    | 8.34 | Melting                              |
| 5.3      | Degreasing                        | 7.28     | Artificial ageing                     | 8.35 | Smelting                             |
| 5.4      | Dewaxing                          | 7.29     | Softening annealing                   | 8.36 | Alloying                             |
| 5.5      | Sintering                         | 7.30     | Other annealing processes             | 8.37 | Remelting                            |
| 5.6      | High pressure sintering           | 7.31     | Heating                               | 8.38 | Cleaning                             |
| 5.7      | Vacuum sintering                  | 7.32     | Heating, Preheating                   | 8.39 | Other                                |
| 5.8      | MIM (Metall Injection Moulding)   | 7.33     | Holding at temperature (liquid phase) | 8.40 | Welding                              |
| 5.9      | Compressing                       | 7.34     | Postheating                           | 8.41 | Sintering                            |
| 5.10     | Brazing                           | 7.35     | Other thermal processes               | 8.42 | Drying                               |
| 5.11     | Other thermal processes           | <b>8</b> | <b>Steel and Iron</b>                 | 8.43 | Heat Treating                        |
| <b>6</b> | <b>Ceramics</b>                   | 8.1      | Burning off                           | 8.44 | Quenching                            |
| 6.1      | Firing                            | 8.2      | Tempering                             | 8.45 | Tempering                            |
| 6.2      | Sintering                         | 8.3      | Carburizing                           | 8.46 | Case hardening                       |
| 6.3      | Drying                            | 8.4      | Salt bath carburizing                 | 8.47 | Annealing                            |
|          |                                   | 8.5      | Gas carburizing                       | 8.48 | Malleablizing                        |
|          |                                   |          |                                       | 8.49 | Quenching and tempering              |
|          |                                   |          |                                       | 8.50 | Heating                              |
|          |                                   |          |                                       | 8.51 | Heating, Preheating                  |
|          |                                   |          |                                       | 8.52 | Holding at temperature (solid phase) |

## List of products/exhibits

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|-----------|---|-----------|---|-----------|--|
| 8.53      | Holding at temperature (liquid phase)           | 11.11     | Firing equipment for solid  | 15.2      | Measuring instruments  |
| 8.54      | Postheating                                     | 11.12     | Gas firing equipment  | 15.3      | Quality test   |
| 8.55      | Other thermal processes                         | 11.13     | Oil firing equipment  | 15.4      | Material test  |
| <b>9</b>  | <b>Harmful substances</b>                       | 11.14     | Burner  | <b>16</b> | <b>Molten metal processing equipment</b>                       |
| 9.1       | Adsorption                                      | 11.15     | Recuperator burner  | 16.1      | Electromagnetic conveying channels                             |
| 9.2       | Catalytic Combustion                            | 11.16     | Safety devices  | 16.2      | Inoculation equipment  |
| 9.3       | Wet collection                                  | 11.17     | Multicomponent firing equipment                                       | 16.3      | Inductive stirring equipment                                   |
| 9.4       | Thermal combustion                              | 11.18     | Ladle firing  | 16.4      | Crucibles  |
| 9.5       | Thermal Recycling, Pyrolysis                    | 11.19     | Regenerators  | <b>17</b> | <b>Heat-insulation and refractory Material</b>                 |
| 9.6       | Other processes                                 | 11.20     | Recuperators  | 17.1      | Refractory bricks, tiles, profiles                             |
| <b>10</b> | <b>Equipment for special use</b>                | 11.21     | Radiant tubes   | 17.2      | Refractory materials   |
|           | <b>Cooling</b>                                  | 11.22     | Burner controls   | 17.3      | Acid-resistant bricks  |
| 10.1      | Cooling equipment                               | 11.23     | Flame detectors   | 17.4      | Insulating bricks, tiles, profiles                             |
| 10.2      | Re-cooling equipment                            | 11.24     | Heating conductor, rods, wire   | 17.5      | Insulating materials   |
| 10.3      | Laboratory equipment                            | 11.25     | Graphite and carbon shapes  | 17.6      | High temperature insulation wool                               |
| 10.4      | Laboratory-type annealing furnaces              | <b>12</b> | <b>Gas generation (inert and reaction gas, regeneration included)</b> | 17.7      | Machinery and plants   |
| 10.5      | Laboratory-type melting furnaces                | 12.1      | Absorber  | 17.8      | Gunning equipments   |
| 10.6      | Laboratory-type drying cabinet                  | 12.2      | Pressure alternating equipment  | 17.9      | Densener   |
| 10.7      | Other laboratory-type furnaces                  | 12.3      | Gas-air mixing equipment  | 17.10     | Other machinery and plants                                     |
| 10.8      | Purification                                    | 12.4      | Gas generators for  | <b>18</b> | <b>Occupational safety and ergonomic</b>                       |
| 10.9      | Degreasing equipment                            | 12.5      | Inert endothermic gas   | <b>19</b> | <b>Consulting, design, service and engineering</b>             |
| 10.10     | Pickling equipment                              | 12.6      | Inert exothermic gas  | <b>20</b> | <b>Trade associations, specialized publisher and magazines</b> |
| 10.11     | Mechanical cleaning plants                      | 12.7      | Inert gas   | <b>21</b> | <b>Training and education</b>                                  |
| 10.12     | Spray scrubber                                  | 12.8      | Nitrogen  |           |  |
| 10.13     | Dipping scrubber                                | 12.9      | Hydrogenated inert gas  |           |  |
| 10.14     | Other cleaning and purification plants          | 12.10     | Closed circuit plants for gas   |           |  |
| 10.15     | Quenching equipment                             | 12.11     | Hot-gas generator   |           |  |
| 10.16     | Heat-transfer plants                            | 12.12     | Mixing chamber  |           |  |
| 10.17     | Chimney technology                              | <b>13</b> | <b>Furnace engineering materials</b>                                  |           |  |
| <b>11</b> | <b>Components, equipment and other supplies</b> | 13.1      | Metallic furnace engineering materials                                |           |  |
| 11.1      | Heating   | 13.2      | Ceramic furnace engineering materials                                 |           |  |
| 11.2      | Electric heating devices                        | 13.3      | Other furnace engineering materials                                   |           |  |
| 11.3      | Inductive heating devices                       | <b>14</b> | <b>Process Material</b>   |           |  |
| 11.4      | Conductive heating devices                      | <b>15</b> | <b>Test technology</b>  |           |  |
| 11.5      | Resistance heating devices                      | 15.1      | Analysis technology and lab equipment                                 |           |  |
| 11.6      | Microwave Heating devices                       |           |   |           |  |
| 11.7      | Plasma heating devices                          |           |   |           |  |
| 11.8      | Arc heating devices                             |           |   |           |  |
| 11.9      | Transformators                                  |           |   |           |  |
| 11.10     | Other electric heating devices                  |           |   |           |  |