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Les leaders industriels mondiaux en métallurgie

Les leaders mondiaux de la sidérurgie

Entreprise	Pays	CA 2002 (Mds€)
Thyssen Krupp	Allemagne	36,7
Arcelor	France, Espagne, Luxembourg	26,6
Nippon Steel	Japon	21,8
NKK	Japon	14
Corus	NL, UK	11,4
Kawasaki Steel	Japon	10,3
Posco	Corée du Sud	9,9
Sumitomo	Japon	7,7
US Steel Corp	US	7,4
Ispat	NL	5,1
Riva	Italie	nd
Nucor	US	5,08
Salzgitter	Allemagne	4,7
SAIL	Inde	3,6

Les leaders mondiaux des métaux non ferreux

Entreprise	Pays	CA 2002 (Mds€)
Norsk hydro	Norvège	21,7
Alcoa	US	21,4
BHP Biliton	Australie	18,5
Alcan	Canada	13,2
Pechiney	France	11,9
Rio tinto	UK, Australie	11,4
Sumitomo chemical	Japon	9,4
Johnson Matthey	UK	6,8
Outokumpu	Finlande	5,2
Nippon light metal company	Japon	4,3
Nexans	France	4,3

Les leaders mondiaux de la fonderie

Entreprise	Pays	CA 2002 (Mds€)
Thyssen Krupp	Allemagne	36,7
Saint Gobain	France	30,3
Nippon Steel	Japon	21,9
Alcoa	US	21,4
Alcan	Canada	13,3
Pechiney	France	11,9
Umicore	Belgique	3,2
Hitachi Metals	Japon	3,1
Precision Cast Parts	US	2,1
Eramet	France	2

Les leaders mondiaux du travail des métaux

Entreprise	Pays	CA 2002 (Mds€)
Thyssen Krupp	Allemagne	36,7
Saint Gobain	France	30,2
Arcelor	France, Espagne, Luxembourg	26,6
Norsk Hydro	Norvège	21,7
Alcoa	US	21,4
Mitsubishi Metals	Japon	14,8
Pechiney	France	11,9
Textron	US	11,3
Schindler	Suisse	5,4
Umicore	Belgique	3,2

Les leaders mondiaux des produits métalliques

Entreprise	Pays	CA 2002 (Mds€)
Thyssen Krupp	Allemagne	36,7
Saint Gobain	France	30,2
Arcelor	France, Espagne, Luxembourg	26,6
Norsk Hydro	Norvège	21,7
Alcoa	US	21,4
Mitsubishi Metals	Japon	14,8
Pechiney	France	11,9
Textron	US	11,3
Schindler	Suisse	5,4
Umicore	Belgique	3,2

Les universités les plus renommées en métallurgie

RMIT University (Australia)
 University of Queensland (Australia)
 University of Leoben (Austria)
 Katholieke Universiteit Leuven (Belgium)
 University of Gent (Belgium)
 Universidade de São Paulo (Brazil)
 Dalhousie University (DalTech) (Canada)
 Laval University (Canada)
 McGill University (Canada)
 Queen's University (Canada)
 University of Alberta (Canada)
 University of British Columbia (Canada)
 University of Toronto (Canada)
 University of Concepción (Chile)
 Institute of Chemical Metallurgy (China)
 Zagreb University (Croatia)
 Helsinki University of Technology (HUT) (Finland)
 Max-Planck-Institut für Eisenforschung (Germany)
 Rheinisch-Westfälisch-Technische Hochschule (Germany)
 Technical University of Clausthal (Germany)
 Technische Universität Bergakademie (Germany)
 National Technical University of Athens (Greece)
 Indian Institute of Science (India)
 Israel Institute of Metals (Israel)
 Kyoto University (Japan)
 Kyushu Institute of Technology (Japan)
 Tohoku University (Japan)
 Tokyo Institute of Technology (Japan)
 Korea Advanced Institute of Science and Technology (Korea)
 University of Malta (Malta)
 Norwegian University of Science and Technology (Norway)
 Silesian University of Technology (Poland)
 Stanislaw Staszic University (Poland)
 Technikon Witwatersrand (SouthAfrica)
 University of Pretoria (SouthAfrica)
 Luleå University of Technology (Sweden)
 Royal Institute of Technology (KTH) (Sweden)
 Ecole Polytechnique Fédérale de Lausanne (Switzerland)
 Eidgenössische Technische Hochschule (ETH) (Switzerland)
 Cambridge University (UK)
 University of Birmingham (UK)
 University of Liverpool (UK)
 Colorado School of Mines (US)
 Columbia University (US)
 Georgia Tech. (US)
 Michigan Tech. University (US)
 New Mexico Tech (US)
 Ohio State University (US)
 Penn State University (US)
 University of Alabama (US)
 University of Connecticut (US)
 University of Idaho (US)
 University of Illinois (US)
 University of Missouri-Rolla (US)
 University of Montana (Montana Tech) (US)
 University of Nevada (US)
 University of Texas (US)
 University of Utah (US)
 University of Wisconsin (US)
 University of Zambia (US)
 Worcester Polytechnic Institute (US)
 University of California (US)

Les universités les plus renommées en fonderie

Commonwealth Scientific and Industrial Research Organisation (Australia)
 University of Vienna (Austria)
 McMaster University (Canada)
 Aalborg University (Denmark)
 Helsinki University of Technology (Finland)
 Technical Research Centre of Finland (VTT) (Finland)
 Ecole des Mines de Paris (France)
 Savoie University (France)
 Friedrich Alexander Universität (Germany)
 Max-Planck-Institut für Eisenforschung (Germany)
 Rheinisch-Westfälisch-Technische Hochschule (Germany)
 Technical University at Darmstadt (Germany)
 University of Erlangen-Nuremberg (Germany)
 University of Hannover (Germany)
 Universität Stuttgart (Germany)
 Institute for Solid State Physics (Hungary)
 University of Tokyo (Japan)

RIKEN (Institute of Physical and Chemical Research), Japan (Japan)
 Royal Institute of Technology (KTH) (Sweden)
 Linköping Institute of Technology (Sweden)
 Luleå University of Technology (LUTH) (Sweden)
 University of Bath (Switzerland)
 Eidgenössische Technische Hochschule (ETH) (Switzerland)
 University of California (us)
 Colorado School of Mines (us)
 Michigan Technological University (us)

Ohio State University (us)
 Penn State University (us)
 Portland Forge (us)
 University of Wyoming (us)
 Wright University (us)
 Wright University (us)
 National Institute of Standards and Technology (us)
 National Center for Excellence in Metalworking (us)
 Lawrence Livermore National Laboratory (us)

Les universités les plus renommées en sidérurgie

University of Newcastle (Australia)
 University of Wollongong (Australia)
 University of California (Berkeley)
 McMaster University (Canada)
 University of British Columbia (Canada)
 Pohang University of Science and Technology (Korea)
 University of Ghent (Belgium)
 University of Oulu (Finland)
 Max-Planck-Institute for Iron Research (Germany)
 Technical University of Freiberg (Germany)

Israel Institute of Metals (Israel)
 RIST (Korea)
 Carnegie Mellon University (US)
 Colorado School of Mines (US)
 Northwestern University (US)
 Penn State University (US)
 University of Northern Iowa (US)
 University of Wisconsin-Madison (US)
 West Virginia University (US)
 Massachusetts Institute of Technology (US)
 University of Illinois (US)

Les universités les plus renommées en travail des métaux

University of Texas (Austin)
 University of Wollongong (Australia)
 Technical University of Vienna (Austria)
 British Columbia Institute of Technology (Canada)
 Conestoga College (Canada)
 Red Deer College (Canada)
 University of Waterloo (Canada)
 Lappeenranta University of Technology (Finland)
 RWTH-Aachen (Germany)
 Cranfield University (UK)
 University of Bath (UK)
 Boise State University (US)
 Cerritos College (US)
 Clark College (US)
 Ferris State University (US)
 Iowa State University (US)
 LeTourneau University (US)
 Michigan State University (US)
 New Horizons Regional Education Center (US)
 Ohio State University (US)
 Texas A&M University (US)
 University of Illinois (US)

University of Kentucky (US)
 University of Liverpool (US)
 University of Michigan (US)
 University of Nebraska (US)
 Vincennes University (US)RIKEN (Institute of Physical and Chemical Research), Japan (Japan)
 Royal Institute of Technology (KTH) (Sweden)
 Linköping Institute of Technology (Sweden)
 Luleå University of Technology (LUTH) (Sweden)
 University of Bath (Switzerland)
 Eidgenössische Technische Hochschule (ETH) (Switzerland)
 University of California (us)
 Colorado School of Mines (us)
 Michigan Technological University (us)
 Ohio State University (us)
 Penn State University (us)
 Portland Forge (us)
 University of Wyoming (us)
 Wright University (us)
 Wright University (us)

National Institute of Standards and Technology (us)
National Center for Excellence in Metalworking (us)

Lawrence Livermore National Laboratory (us)

Les universités les plus renommées en corrosion

University of Texas (Austin)
University of Wales (Bangor)
McMaster University (Canada)
University of Western Ontario (Canada)
Märkische Fachhochschule (Germany)
Technical University of Dresden (Germany)
University of Hannover (Germany)
University of Regensburg (Germany)
Israel Institute of Metals (Israel)
Tel Aviv University (Israel)
University of Torino (Italy)
University of Tokyo (Japan)
Utrecht University (Netherlands)
Technical University of Gdansk (Poland)
University of Jagiellonian (Poland)
Moscow State University (Russia)
Royal Institute of Technology (KTH) (Stockholm)
Queen Mary and Westfield College (UK)
University of Liverpool (UK)
University of Newcastle upon Tyne (UK)

University of Southampton (UK)
University of Manchester Institute of Science and Technology (UK)
Helsinki University of Technology (HUT) (Finland)
Eidgenössische Technische Hochschule (ETH) (Switzerland)
Swiss Federal Labs. for Materials Testing and Research (EMPA) (Switzerland)
Case Western Reserve University (US)
Northwestern University Infrastructure Technology Institute (ITI) (US)
Ohio State University (US)
Purdue University (US)
University of Delaware (US)
University of Florida (US)
University of Southwestern Louisiana (US)
University of Virginia (US)
Virgin Tech. (US)
State University of New York (US)

Les universités les plus renommées en tribologie

University of Gent (Belgium)
University of Western Ontario (Canada)
University of Windsor (Canada)
Ecole Centrale de Lyon (France)
Institut National des Sciences Appliquées de Lyon (France)
Université de Poitiers (France)
Technical University of Ilmenau (Germany)
Technical University of Munich (Germany)
University of Applied Sciences (FH-Hamburg) (Germany)
Indian Institute of Science (India)
Trinity College (Ireland)
Israel Institute of Technology (Technion) (Israel)
Kanazawa University (Japan)
Kyushu University (Japan)
Niigata University (Japan)
Saitama University (Japan)
Tohoku University (Japan)
Tokyo Institute of Technology (Japan)
Technical University of Delft (Netherlands)

University of Twente (Netherlands)
University of Ljubljana (Slovenia)
Royal Institute of Technology (KTH) (Sweden)
Luleå Technical University (Sweden)
Uppsala University (Sweden)
Ecole Polytechnique Federale de Lausanne (Switzerland)
Swiss Federal Laboratories for Materials Testing and Research (EMPA) (Switzerland)
Eidgenössische Technische Hochschule (ETH) (Switzerland)
Imperial College (UK)
Cambridge University (UK)
University of Leeds (UK)
University of Newcastle upon Tyne (UK)
University of Sheffield (UK)
University of Illinois (US)
University of California (US)
University of California (US)
Argonne National Laboratory (US)
NASA Lewis Research Center (LeRC) (US)
National Research Council of Canada (US)

Naval Research Lab (US)
National Institute for Occupational Safety and Health (NIOSH) (US)
Oak Ridge National Laboratory (ORNL) (US)
Occupational Safety & Health Administration (OSHA) (US)
Southwest Research Institute (SwRI) (US)
Cleveland State University (US)
College of Petroleum and Energy Studies (US)
Colorado School of Mines (US)
Georgia Institute of Technology (US)
Iowa State University (US)
Michigan Technological University (US)
Northwestern University (US)

Ohio State University (US)
Pennsylvania State University (US)
Purdue University (US)
Sandia National Laboratories (US)
Southern Illinois University (US)
State University of New York (US)
Texas Tech University (US)
University of Akron (US)
University of Florida (US)
University of Maine (US)
University of Notre Dame (US)
University of Pittsburgh (US)
University of Western Australia (US)
Western Michigan University (US)