

# PRECIOS DE MINERALES INDUSTRIALES

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Bold indicates price change from previous month (it may have changed more than once during the month). All prices are in US\$ and quoted per tonne unless indicated. It is not possible to publish prices for all industrial minerals and grades in the space available, these pages comprise a selection of frequently traded minerals. For a wider range and more detail on mineral prices, we refer you to [Pricing Database](#). For any information, or to make a comment on prices, please contact **Barbara O'Donovan, Industrial Minerals editor** at [bodonovan@indmin.com](mailto:bodonovan@indmin.com)

**Price effective 18 August 2016**

## **Alumina**

Calcined 98.5-99.5%  $\text{Al}_2\text{O}_3$  bulk FOB US refinery \$665-710

Calcined, ground 98.5-99.5%  $\text{Al}_2\text{O}_3$ , bulk FOB US refinery \$745-845

Calcined, medium-soda  $\text{Al}_2\text{O}_3$ , bulk FOB refinery \$800-840

## **Alumina, fused**

**Brown 95% min.  $\text{Al}_2\text{O}_3$ , FEPA F8-220 Grit, FOB China \$600-650**

**Brown 95.5%  $\text{Al}_2\text{O}_3$ , refractory lump & sized, FOB China \$590-600**

**White, 25kg bags, CIF Europe €600-650**

**Brown 94%  $\text{Al}_2\text{O}_3$ , FEPA 8-220 mesh refractory (mm) Chinese \$580-590**

Brown, 94%  $\text{Al}_2\text{O}_3$ , FEPA acid washed grits, CIF China \$690-740

Hydrated Alumina (ATH)

Hydrated alumina (ATH) Damp (57-60%  $\text{Al}_2\text{O}_3$ , 5-8% moisture) Bulk FOB refinery \$280-330

## **Andalusite**

57-58%  $\text{Al}_2\text{O}_3$ , 2,000 tonne bulk, FCA Mine-RSA €240-290

55-59% Al<sub>2</sub>O<sub>3</sub>, FOB European port €355-425

### **Antimony Trioxide**

Typically 99.5% Sb<sub>2</sub>O<sub>3</sub>, 5 tonne lots, CIF Antwerp/Rotterdam \$4500-4600

Typically 99.5% Sb<sub>2</sub>O<sub>3</sub>, 20 tonne lots FOB China \$4500-4600

Typically 99.5% Sb<sub>2</sub>O<sub>3</sub>, ex-works USA \$4500-4600

Ingot, 99.65% min, FOB China \$5100-5200

Ingot, 99.65% min, CIF Rotterdam \$5200-5300

### **Baddeleyite**

Contract price, Refractory/abrasive grade, CIF main European port \$2500-3100

Contract price, Ceramic grade (98% ZrO<sub>2</sub> + HfO<sub>2</sub>), CIF main European port \$3000-3300

Contract price, Ceramic pigment grade, CIF main European port \$3200-3500

### **Barytes**

#### **Drilling grade Unground lump OCMA/API bulk, SG 4.20**

FOB Chennai \$115-125

FOB Morocco \$105-115

FOB China \$90-100

C&F North Sea (Moroccan) \$125-135

OCMA/API bulk, SG 4.10 FOB Chennai \$110-120

FOB China \$85-90

#### **API, CIF Gulf Coast, Chinese \$118-130**

Indian \$120-130

Ground

OCMA bulk, del. Aberdeen £110-125

OCMA bulk, del. Gt Yarmouth £110-130

OCMA/API, big bags (1.5t), FOB S.Turkey \$120-135

SG 4.22, bagged, FOB Morocco \$100-150

Paint grade

Ground white 96-98% BaSO<sub>4</sub>, 350 mesh, 1-5 lots, del. UK £190-220

**Chinese lump, CIF Gulf Coast \$215-250**

Ground, white, 96-98% BaSO<sub>4</sub>, 325-350 mesh, 1-5 lots, ex-works USA. \$/s. ton \$315-370

Chemical grade

Chinese, CIF Gulf Coast \$145-162

**Bauxite**

**Refractory grade**

Chinese Al<sub>2</sub>O<sub>3</sub>/Fe<sub>2</sub>O<sub>3</sub>/BD, lumps 0-25mm Shanxi, FOB Xingang

**Round kiln 87/2.0/3.2 \$290-320**

**Round kiln 86/2.0/3.15-3.20 \$270-280**

**Round kiln 85/2.0/3.15 \$240-270**

**Rotary kiln 86/1.8/3.15 \$270-280**

**Rotary kiln 85/1.8/3.15 \$240-270**

**Calcined kiln 88/1.8/3.25 \$320-350**

**Calcined kiln 87/2.0/3.20 \$290-325**

**Calcined kiln 86/2.0/3.15 \$270-290**

**Calcined kiln 85/2.0/3.10 \$260-290**

**Bentonite**

Cat litter, grade 1-5mm, bulk, FOB main European port €40-62

Indian, cat litter grade, crushed, dried, loose in bulk, FOB Kandla \$32-35

OCMA/Foundry grades, crude & dried, bulk, FOB Milos €60-80

API grade, bagged rail-car, ex-works Wyoming, per \$/s.ton \$86-125

Foundry grade, bagged, railcars, ex-works Wyoming, per s.ton \$97-124

IOP grade, crude, bulk, ex-works Wyoming, per \$/s.ton \$50-65

(Dried material in bulk) FOB Greece, €/tonne €65-75

Cat litter grade, ex-works Wyoming, USA, \$/s.ton \$47-59

Fullers' earth, soda ash-treated, Civil eng. grade, ex-works, South Africa £50-70

Indian, FOB Kandla, crushed and dried, loose in bulk, Civil Engineering grade, \$35-45

Indian, FOB Kandla, crushed and dried, loose in bulk, Iron ore pelletising grade \$36-39

South African., ex-works Fullers' earth, soda ash-treated, Cat litter grade, 1-7mm £29-40

South African., ex-works Fullers' earth, soda ash-treated, foundry grade, bagged £60-85

Foundry grade, bulk, del Japan \$140-220

### **Borates/Boron minerals**

Boric Acid, FOB Chile \$620-900

Colemanite, 40% B<sub>2</sub>O<sub>3</sub>, FOB Buenos Aires \$690-730

Decahydrate Borax, FOB Buenos Aires \$940-975

Ulexite, 40% B<sub>2</sub>O<sub>3</sub>, FOB Buenos Aires \$690-750

Ulexite, 40% B<sub>2</sub>O<sub>3</sub>, FOB Lima \$620-650

Ulexite, granular 40% B<sub>2</sub>O<sub>3</sub>, FOB Chile \$720-820

Borax, PP bags (25kg & 50kg), Boric acid, gran, tech, FOB Latin America \$620-1000

Borax, PP bags (25kg & 50kg), Decahydrate borax, gran, tech, FOB Latin America \$910-1050

Boric acid, FOB Buenos Aires \$620-1000

Colemanite, 40-42% B<sub>2</sub>O<sub>3</sub>, ground, bagged, FOB Argentina \$630-690

Ulexite 46-48% B<sub>2</sub>O<sub>3</sub>, FOB Lima \$675-720

### **Bromine**

Purified, bulk, 99.95% Br, domestic destination, tonne lot, ex-works USA \$/lb \$2-2.45

Bulk, purified, 99.95% Br, ex works, CIF Europe \$/lb \$1.76-1.98

Large contract, Bulk, European \$/tonne \$3245-3490

### **Calcium carbonate**

GCC, coated, fine grade, ex-works UK £95-115

GCC, 50-22 microns, FOB USA \$28-32

GCC, 22-10 microns, FOB USA \$59-122

GCC, 3 microns (untreated), FOB USA \$197-215

GCC, stearate coated 1.1-0.7 microns, FOB USA \$315-463

GCC, 1.1-0.7 microns (untreated), FOB USA \$231-336

PCC, Fine, surface treated (0.4-1 microns), FOB USA \$317-326

GCC, coated, chalk, ex-works UK £68-84

PCC, coated, ex-works, UK £407-603

PCC, uncoated, ex-works, UK £375-603

### **Celestite**

Turkish, 96%,  $\text{SrSO}_4$ , FOB Iskenderun \$90-100

### **Chromite**

**Chemical grade, 46%  $\text{Cr}_2\text{O}_3$ , wet bulk, FOB South Africa \$190-200**

**Refractory grade, 46%  $\text{Cr}_2\text{O}_3$  wet bulk, FOB South Africa \$230-290**

**Foundry grade, 46%  $\text{Cr}_2\text{O}_3$ , wet bulk, FOB South Africa \$230-260**

South African, Northwest, Metallurgical grade, friable lumpy, 40%  $\text{Cr}_2\text{O}_3$  \$135-150

Sand, moulding grade, 98% <30 mesh, del UK £365-420

**Foundry +47%  $\text{Cr}_2\text{O}_3$  dried 1 tonne big bags FOB South Africa \$290-330**

Foundry, 45.8% min  $\text{Cr}_2\text{O}_3$ , wet bulk, FOB South Africa \$220-250

Metallurgical grade, Conc' 40%, FOB Northwest, South Africa \$120-145

### **Diatomite**

US, calcined filter-aid grade, FOB plant \$635-670

US, flux-calcined filter-aid grade, FOB plant \$640-880

### **Feldspar**

Turkish, Na feldspar, Crude,

-10mm size bulk, FOB Gulluk \$22-23

Turkish, Na feldspar, Glass grade, -500 microns, bagged, FOB Gulluk \$70

(-38 micron, FCL's bagged, >90 brightness) FOB Durban, South Africa \$168-176

(-20 micron, FCL's, bagged, >92 brightness) FOB Durban, South Africa \$199-210

(Na), ceramic grade, 170-200 mesh, bagged, ex-works USA, \$/s.ton \$150-180

Na feldspar, floated -150 microns, bagged, FOB Gulluk, Turkey \$53-55

Na feldspar, floated -500 microns, bulk, FOB Gulluk, Turkey \$38-40

### **Fluorspar**

#### **Acidspar filtercake,**

97% CaF<sub>2</sub>, Dry Filtercake, <5ppm, FOB, Tampico, Mexico \$280-310

97% CaF<sub>2</sub>, Wet Filtercake, FOB, Tampico, Mexico \$260-280

**97% CaF<sub>2</sub>, Wet Filtercake, CIF, Rotterdam, Holland \$250-270**

**97% CaF<sub>2</sub>, Wet Filtercake, FOB, China \$270-290**

**97% CaF<sub>2</sub>, Dry Filtercake, FOB, Durban, South Africa \$200-220**

**95% CaF<sub>2</sub>, Dry Filtercake, CIF, US Gulf Port, USA \$260-270**

#### **Metallurgical**

Metspar, min 85% CaF<sub>2</sub>, FOB, Tampico, Mexico \$230-250

Metspar, min 85% CaF<sub>2</sub>, CIF, China to Holland \$240-260

Metspar, min 80% CaF<sub>2</sub>, Bulk, FOB, China \$260-280

Metspar, min 85% CaF<sub>2</sub>, FOB, China \$270-290

Metspar, min 90% CaF<sub>2</sub>, FOB, China \$290-310

## **Graphite**

**Amorphous, 80-85% C, -200 Mesh, FCL, CIF, China to Europe \$400-430**

Amorphous, 75% C, Ore, EXW Austria \$450-500

Synthetic fine 97-98% CIF Asia \$950-1450

Synthetic fine 98-99% CIF Asia \$1000-1500

## **Crystalline**

**Flake, 85-87% C, +100 Mesh -80 Mesh, FCL, CIF, Europe: \$400-450**

Flake, 90% C, -100 Mesh, FCL, CIF, Europe \$500-550

Flake, 90% C, +100 Mesh -80 Mesh, CIF, Europe: \$550-620

Flake, 90% C, +80 Mesh, CIF, Europe: \$600-650

Flake, 94-97% C, -100 Mesh, FCL, CIF, Europe : \$620-650

Flake, 94-97% C, +100 Mesh -80 Mesh, FCL, CIF, Europe: \$700-750

**Flake, 94-97% C, +80 Mesh, FCL, CIF, Europe: \$750-850**

## **Ilmenite**

China, bulk concentrates. min 54% TiO<sub>2</sub>, CIF \$90-110

Australian, bulk concentrates. min 54% TiO<sub>2</sub>, FOB \$100-110

Australian, spot price, min 54% TiO<sub>2</sub>, FOB \$100-120

## **Iodine**

**Iodine crystal, 99.5% min, drums, spot, \$/kg \$21-23**

**Iodine crystal, 99.5% min, drums, contract, \$/kg \$22-24.5**

## **Iron Oxide Pigment**

Brown type 868, bagged, FOB China \$1015-1080

Red type 130 90% Fe<sub>2</sub>O<sub>3</sub>, bagged, FOB China \$1435-1640

**Kaolin**

No 1 paper coating grade, Ex-Georgia plant, s.ton \$147-203

No 2 paper coating grade, Ex-Georgia plant, s.ton \$126-198

**Kyanite**

Ex-works USA, 55-60%  $\text{Al}_2\text{O}_3$ , raw kyanite, s.ton \$225-320

55-60%  $\text{Al}_2\text{O}_3$ , 22 ton lots, calcined \$375-440

**Leucoxene**

min. 91%  $\text{TiO}_2$ , max. 1%  $\text{ZrO}_2$ , bagged, FOB West Australia \$700-800

**Lithium**

Lithium carbonate, del continental, USA large contracts, \$ per lb \$3-3.52

Lithium carbonate, large contracts, del continental US, \$/kg \$6.5-8.5

Lithium carbonate, large contracts, packed in bags, CIF Asia, \$/kg \$6.5-8.5

Lithium hydroxide, 56.5-57.5%  $\text{LiOH}$ , large contracts, packed in drums or bags,  
del Europe or USA, \$/kg \$8.5-11

Lithium hydroxide, Chinese, (56.5-57.5%  $\text{LiOH}$ ), packed in drums or bags, large  
contracts, del Europe \$/kg \$8.3-10

Petalite, 4.2%  $\text{Li}_2\text{O}$ , FOB Durban, \$170-265

Spodumene concentrate, >7.5%  $\text{Li}_2\text{O}$ , CIF USA, s.ton \$730-775

Spodumene concentrate, 5%  $\text{Li}_2\text{O}$ , CIF USA, s.ton \$420-450

Spodumene concentrate, 7.5%  $\text{Li}_2\text{O}$ , CIF Europe \$740-790

Spodumene concentrate, 5%  $\text{Li}_2\text{O}$ , CIF Europe \$450-500

Spodumene concentrate, > 7.5%  $\text{Li}_2\text{O}$ , bulk, CIF Asia \$755-780

Spodumene concentrate, 5%  $\text{Li}_2\text{O}$ , CIF Asia \$350-410

**Magnesia**

Calcined, 90-92%  $\text{MgO}$ , lump, FOB China \$170-200



European calcined, agricultural grade, CIF Europe €240-300

**Dead-burned,**

Lump, FOB China

90% MgO \$210-230

92% MgO \$240-260

94-95% MgO \$290-305

97.5% MgO \$370-400

**Fused,**

Lump, FOB China

96% MgO \$420-480

97% MgO, Ca:Si 1:1 \$490-505

97% MgO, Ca:Si 2:1 \$530-545

98% MgO \$770-950

**Magnesite**

Greek, raw, max 3.5% SiO<sub>2</sub>,

FOB East Mediterranean €65-80

**Mica**

Indian mine scrap green

(Andhra Pradesh) for mica paper,

FOB Madras \$350-450

Indian wet-ground, CIF Europe \$550-850

(325 mesh, FCL's, bagged) FOB Durban \$400-475

(60 mesh, FCL's, bagged) FOB Durban \$450-575

Micronised, FOB plant, USA \$700-950

Wet-ground, FOB plant, USA \$700-1250

Flake, FOB plant, USA \$350-500

### **Nitrate**

Sodium, about 98%, ex-store Chile €560-600

### **Olivine**

Olivine, refractory grade, bulk, US ex-plant/mine \$80-150

### **Perlite**

Coarse (filter aid) FOB east Mediterranean, bulk €75-80

Raw, crushed, grade, big bags FOB Turkey \$100-110

Raw, crushed, grade, bulk FOB Turkey \$85-95

### **Phosphate**

Phosphate, 70-72% BPL, long term contract, FAS Casablanca, Morocco, \$/tonne \$110-120

Phosphate DAP FOB Central Florida \$/tonne \$475-500

### **Potash**

C&F Western Europe, contract, Standard \$310-390

Muriate, KCl, granular, bulk, ex-works, North America \$310-340

Muriate, KCl, standard, bulk, FOB Vancouver \$300-390

Muriate, KCl, standard, bulk, FOB Baltic \$/tonne \$280-330

### **Rare earth minerals**

Min 99%, large purchases, FOB China, \$/kg

Cerium oxide \$1.5-1.6

Dysprosium oxide \$240-267

Europium oxide \$95-165

Lanthanum oxide \$1.7-1.9

Neodymium oxide \$39-42

Praesodymium oxide \$48-53

Samarium oxide \$1.9-2.5

### **Refractory clays/Mullite**

Clay, Mulcoa 47% (sized in bulk bags), for coarse sizing, FOB USA, s.ton \$195-200

### **Rutile**

Australian concentrate, min. 95%  $\text{TiO}_2$ , bagged, FOB \$620-650

China concentrate, min. 95%  $\text{TiO}_2$ , bulk, CIF \$650-700

Australian concentrate, min. 95%  $\text{TiO}_2$ , large vol. for pigment, FOB \$650-700

### **Salt**

Australian solar salt bulk CIF Shanghai, \$42-50

Industrial solar salt, ex-works China \$40-55

Industrial vacuum salt, ex-works China \$45-53

### **Silica sand**

Minus 20 micron, FCL, bagged >92 brightness, FOB Durban \$300-375

Glass sand, container, ex-works USA \$30-35

### **Silicon carbide**

$\text{SiC}$ , FEPA 8-220, CIF UK, black, about 99%  $\text{SiC}$

$\text{SiC}$  Grade 1 €1900-2100

$\text{SiC}$  Grade 2 €1500-1650

Refractory grade,

min 98%  $\text{SiC}$  €1500-1800

min 95%  $\text{SiC}$  €1350-1450

### **Soda ash**

Chinese synthetic soda ash, dense & light, CIF Far East \$220-230

Chinese synthetic soda ash, dense & light, FOB China \$205-240

Indian synthetic soda ash, dense & light, Domestic ex-works India \$290-310

Indian synthetic soda ash, dense & light, Export C&F India \$200-235

European synthetic, dense & light, Large Contracts ex-works €180-200

### **Sulphur**

Canadian solid, spot, FOB Vancouver \$140-155

FOB Middle East \$119-135

### **TiO<sub>2</sub> pigment**

Bulk volume, per tonne CFR Asia \$1650-2000

CIF Northern Europe €1900-2250

CIF USA \$2100-2450

CIF Latin America, per lb \$1-1.3

### **Vermiculite**

South African, bulk, FOB Antwerp \$320-600

Brazilian, big bags, FOB Antwerp \$230-577

Brazilian, big bags, FOB East Coast Port \$250-550

### **Wollastonite**

US ex-works, s.ton Acicular minus

200 mesh \$210-240

325 mesh \$220-250

Acicular (15:-1-20:1 aspect ratio) \$440-445

Chinese, FOB, tonne Acicular minus

200 mesh \$80-100

325 mesh \$90-105

### **Zircon**

CIF China, min 65.5% ZrO<sub>2</sub> bulk shipments

Premium \$1030-1100

Standard \$1000-1100

FOB Australia, min 65.5% ZrO<sub>2</sub>, bulk shipments

Premium \$1000-1050

Standard \$950-1000

FOB USA, min 65.5% ZrO<sub>2</sub>, bulk shipments

Premium \$1000-1150

Standard \$950-1100

CIF South Africa, bulk shipments

Ceramic grade \$900-1000

FOB South Africa, bulk shipments

Ceramic grade \$1000-1100

### **Micronised zircon**

99.5% <4μ, average particle size <0.95μ, C&F Asia, \$1500-1750

### **Fused zirconia**

Monoclinic, refractory/abrasive, contract, CIF main European port \$6000-7000

Monoclinic, Ceramic pigment grade, Contract price, CIF main European port \$3500-4500

Monoclinic, Structural ceramic/ electronic grade, Contract price, CIF main European port \$4300-5500

Monoclinic, Technical ceramic, grade, Contract price, CIF main European port \$15000-19000

Stabilised, Refractory grade, Contract price, CIF main European port \$6000-7000

Stabilised, Technical ceramic grade, Contract price, CIF main European port \$4700-9500

### **Zircon Opacifiers**

Micronised zircon, 100% < 6 microns, average 1-2 microns, bagged, CFR Asia \$1500-2000

Micronised zircon, 100% < 6 microns, average 1-2 microns, bagged, ex-works Europe  
\$1500-1950

**For in-depth fluorspar and graphite price analysis, please visit the IM Premium Pricing mineral tracker pages online.**

**IM** takes price ideas and comments from many sources, which are used in strict confidence to ascertain pricing levels. If you would like to contribute and enhance our pricing coverage and comment, please contact **Barbara O'Donovan, Industrial Minerals editor.**

**Fuente: Revista Industrial Minerals: <http://www.idmin.com>**