

## Rare Earth

| • rare earth oxides   |           |             |        |             |
|-----------------------|-----------|-------------|--------|-------------|
| Prices                | Average   | Change ▲    | Unit   | Date        |
| Lanthanum Oxide       |           |             |        |             |
| 12200.00 ~ 12700.00   | 12450.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Lanthanum Oxide       |           |             |        |             |
| 12200.00 ~ 12700.00   | 12450.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Cerium Oxide          |           |             |        |             |
| 12200.00 ~ 12700.00   | 12450.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Cerium Oxide          |           |             |        |             |
| 12200.00 ~ 12700.00   | 12450.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Neodymium Oxide       |           |             |        |             |
| 270000.00 ~ 275000.00 | 272500.00 | -10000.00 ▼ | RMB/mt | Apr 12,2019 |
| Neodymium Oxide       |           |             |        |             |
| 270000.00 ~ 275000.00 | 272500.00 | -10000.00 ▼ | RMB/mt | Apr 12,2019 |
| Praseodymium Oxide    |           |             |        |             |
| 370000.00 ~ 380000.00 | 375000.00 | 0.00        | RMB/mt | Apr 12,2019 |
| Praseodymium Oxide    |           |             |        |             |
| 370000.00 ~ 380000.00 | 375000.00 | 0.00        | RMB/mt | Apr 12,2019 |
| Terbium Oxide         |           |             |        |             |
| 3120.00 ~ 3150.00     | 3135.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Terbium Oxide         |           |             |        |             |
| 3120.00 ~ 3150.00     | 3135.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Dysprosium Oxide      |           |             |        |             |
| 1470.00 ~ 1480.00     | 1475.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Dysprosium Oxide      |           |             |        |             |
| 1470.00 ~ 1480.00     | 1475.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Europium Oxide        |           |             |        |             |

| Prices                | Average   | Change ▲   | Unit   | Date        |
|-----------------------|-----------|------------|--------|-------------|
| 250.00 ~ 270.00       | 260.00    | 0.00       | RMB/kg | Apr 12,2019 |
| Europium Oxide        |           |            |        |             |
| 250.00 ~ 270.00       | 260.00    | 0.00       | RMB/kg | Apr 12,2019 |
| Yttrium Oxide         |           |            |        |             |
| 18000.00 ~ 20000.00   | 19000.00  | 0.00       | RMB/mt | Apr 12,2019 |
| Yttrium Oxide         |           |            |        |             |
| 18000.00 ~ 20000.00   | 19000.00  | 0.00       | RMB/mt | Apr 12,2019 |
| Didymium Oxide        |           |            |        |             |
| 265000.00 ~ 270000.00 | 267500.00 | -5000.00 ▼ | RMB/mt | Apr 12,2019 |
| Didymium Oxide        |           |            |        |             |
| 265000.00 ~ 270000.00 | 267500.00 | -5000.00 ▼ | RMB/mt | Apr 12,2019 |
| Samarium Oxide        |           |            |        |             |
| 12000.00 ~ 13000.00   | 12500.00  | 0.00       | RMB/mt | Apr 12,2019 |
| Samarium Oxide        |           |            |        |             |
| 12000.00 ~ 13000.00   | 12500.00  | 0.00       | RMB/mt | Apr 12,2019 |
| Gadolinium Oxide      |           |            |        |             |
| 144000.00 ~ 146000.00 | 145000.00 | 0.00       | RMB/mt | Apr 12,2019 |
| Gadolinium Oxide      |           |            |        |             |
| 144000.00 ~ 146000.00 | 145000.00 | 0.00       | RMB/mt | Apr 12,2019 |
| Erbium Oxide          |           |            |        |             |
| 147000.00 ~ 152000.00 | 149500.00 | 0.00       | RMB/mt | Apr 12,2019 |
| Erbium Oxide          |           |            |        |             |
| 147000.00 ~ 152000.00 | 149500.00 | 0.00       | RMB/mt | Apr 12,2019 |

- rare earth metals

| Prices    | Average | Change ▲ | Unit | Date |
|-----------|---------|----------|------|------|
| Lanthanum |         |          |      |      |

| Prices                | Average   | Change ▲    | Unit   | Date        |
|-----------------------|-----------|-------------|--------|-------------|
| 35000.00 ~ 36000.00   | 35500.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Lanthanum             |           |             |        |             |
| 35000.00 ~ 36000.00   | 35500.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Praseodymium          |           |             |        |             |
| 680000.00 ~ 700000.00 | 690000.00 | 0.00        | RMB/mt | Apr 12,2019 |
| Praseodymium          |           |             |        |             |
| 680000.00 ~ 700000.00 | 690000.00 | 0.00        | RMB/mt | Apr 12,2019 |
| Neodymium             |           |             |        |             |
| 350000.00 ~ 355000.00 | 352500.00 | -15000.00 ▼ | RMB/mt | Apr 12,2019 |
| Neodymium             |           |             |        |             |
| 350000.00 ~ 355000.00 | 352500.00 | -15000.00 ▼ | RMB/mt | Apr 12,2019 |
| Cerium                |           |             |        |             |
| 34000.00 ~ 35000.00   | 34500.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Cerium                |           |             |        |             |
| 34000.00 ~ 35000.00   | 34500.00  | 0.00        | RMB/mt | Apr 12,2019 |
| Terbium               |           |             |        |             |
| 4020.00 ~ 4050.00     | 4035.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Terbium               |           |             |        |             |
| 4020.00 ~ 4050.00     | 4035.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Dysprosium            |           |             |        |             |
| 1780.00 ~ 1810.00     | 1795.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Dysprosium            |           |             |        |             |
| 1780.00 ~ 1810.00     | 1795.00   | 0.00        | RMB/kg | Apr 12,2019 |
| Yttrium               |           |             |        |             |
| 220.00 ~ 230.00       | 225.00    | 0.00        | RMB/kg | Apr 12,2019 |
| Yttrium               |           |             |        |             |
| 220.00 ~ 230.00       | 225.00    | 0.00        | RMB/kg | Apr 12,2019 |

• alloys

| Prices                  | Average    | Change ▲   | Unit   | Date        |
|-------------------------|------------|------------|--------|-------------|
| Pr-Nd Alloy             |            |            |        |             |
| 342000.00 ~ 347000.00   | 344500.00  | -5000.00 ▼ | RMB/mt | Apr 12,2019 |
| Pr-Nd Alloy             |            |            |        |             |
| 342000.00 ~ 347000.00   | 344500.00  | -5000.00 ▼ | RMB/mt | Apr 12,2019 |
| Battery Grade Misch     |            |            |        |             |
| 140000.00 ~ 150000.00   | 145000.00  | 0.00       | RMB/mt | Apr 12,2019 |
| Battery Grade Misch     |            |            |        |             |
| 140000.00 ~ 150000.00   | 145000.00  | 0.00       | RMB/mt | Apr 12,2019 |
| Cerium Misch            |            |            |        |             |
| 33000.00 ~ 35000.00     | 34000.00   | 0.00       | RMB/mt | Apr 12,2019 |
| Cerium Misch            |            |            |        |             |
| 33000.00 ~ 35000.00     | 34000.00   | 0.00       | RMB/mt | Apr 12,2019 |
| Dy-Iron Alloy           |            |            |        |             |
| 1460000.00 ~ 1480000.00 | 1470000.00 | 0.00       | RMB/mt | Apr 12,2019 |
| Dy-Iron Alloy           |            |            |        |             |
| 1460000.00 ~ 1480000.00 | 1470000.00 | 0.00       | RMB/mt | Apr 12,2019 |

• compounds

| Prices              | Average  | Change ▲ | Unit   | Date        |
|---------------------|----------|----------|--------|-------------|
| RE Carbonate        |          |          |        |             |
| 22000.00 ~ 24000.00 | 23000.00 | 0.00     | RMB/mt | Apr 12,2019 |
| RE Carbonate        |          |          |        |             |
| 22000.00 ~ 24000.00 | 23000.00 | 0.00     | RMB/mt | Apr 12,2019 |