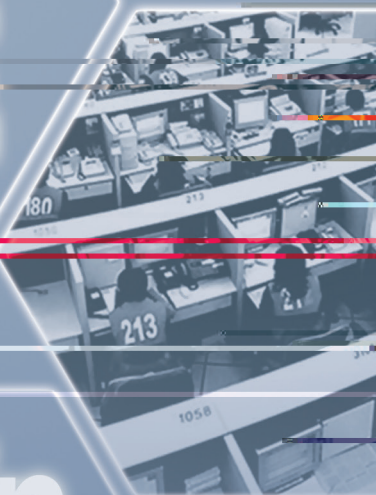


有色金属

nonferrous metal

2019 版
期货合约交易
操作手册



上海期货交易所
SHANGHAI FUTURES EXCHANGE

2019

(8621-68400000)

(<http://www.shfe.com.cn>)

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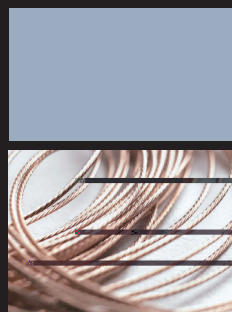
/55

/68

/70

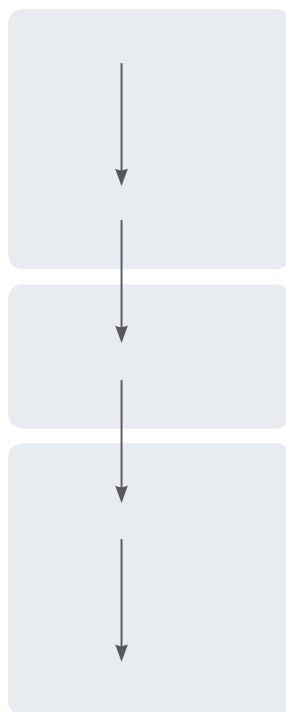
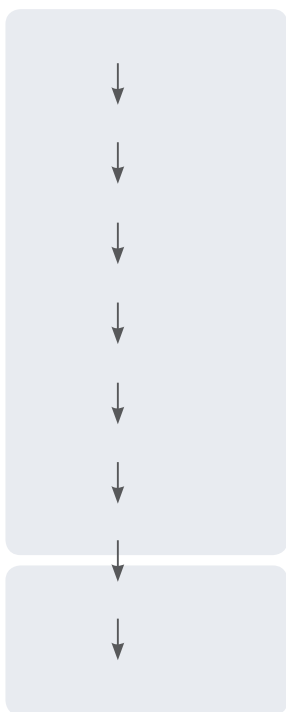
品种概况

1083



| | | | | |
|--|-----|-----|-----|----|
| | | | | |
| | 64% | 23% | 12% | 1% |

()



CRU
3.05%
5 64.1

| 2014 -2018 | 5 | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------|---|---------|---------|---------|---------|---------|
| | | 711.53 | 743.87 | 823.14 | 880.13 | 940.50 |
| | | 274.42 | 267.66 | 263.45 | 244.58 | 249.87 |
| | | 156.00 | 149.10 | 159.30 | 153.00 | 155.60 |
| | | 88.50 | 87.77 | 87.86 | 93.97 | 99.65 |
| | | 103.73 | 112.73 | 115.80 | 102.15 | 99.49 |
| | | 2175.31 | 2218.24 | 2275.35 | 2317.56 | 2388.26 |

CRU

1625.34

| 2014 -2018 | | | | | |
|------------|---------|---------|---------|---------|---------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 979.82 | 1017.87 | 1064.24 | 1120.78 | 1172.72 |
| | 163.38 | 160.15 | 162.63 | 162.21 | 164.92 |
| | 109.72 | 111.06 | 114.87 | 110.39 | 113.49 |
| | 105.76 | 100.58 | 98.63 | 99.07 | 102.20 |
| | 73.71 | 73.12 | 73.56 | 77.06 | 72.01 |
| | 2155.78 | 2178.37 | 2235.42 | 2295.44 | 2359.82 |

CRU

2018
902.86 7.95%

| 2014 -2018 | | | | | |
|------------|---------|---------|---------|---------|---------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 764.91 | 796.89 | 845.42 | 891.51 | 902.86 |
| % | 14.73 | 4.18 | 6.09 | 5.45 | 7.95 |
| | 2175.31 | 2218.24 | 2275.35 | 2317.56 | 2388.26 |
| % | 35.16 | 35.92 | 37.16 | 38.47 | 37.80 |

CRU

2018
100 150.82 130.45
105.49 16.70% 14.45% 11.68%
2017 15.52%
2018 786.08
87.07%



2.7 2.72g/cm³ 1/3
0.006

60%

2017 2018

6382 0.57% CRU 5 2018 77.4%

2018 5

| 2013 -2018 | 5 | | | | |
|------------|------|------|------|------|------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 2830 | 3120 | 3192 | 3631 | 3622 |
| | 348 | 353 | 370 | 372 | 377 |
| | 286 | 288 | 321 | 322 | 292 |
| | 229 | 238 | 243 | 252 | 255 |
| | 192 | 234 | 272 | 326 | 368 |
| | 5421 | 5750 | 5889 | 6352 | 6352 |

2018

18

29

1.7%

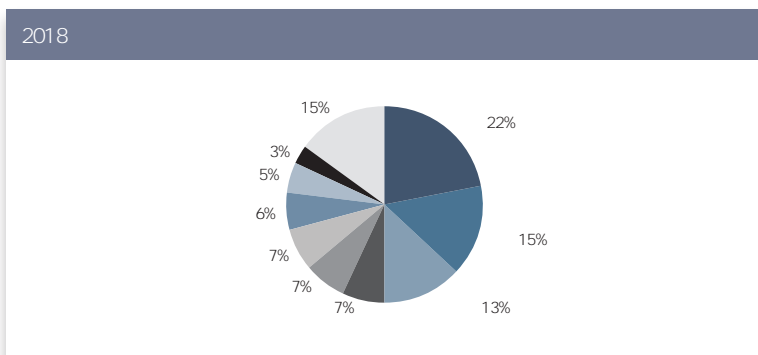
2018

2

57% 201

| 2014 -2018 | | | | | |
|------------|-------|-------|-------|-------|------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 2439 | 3141 | 3187 | 3227 | 3659 |
| % | 7.7 | 8.4 | 1.5 | 1.6 | -0.2 |
| % | 44.99 | 54.63 | 54.12 | 50.73 | 57 |

2018 37% 2018
512 / 2018



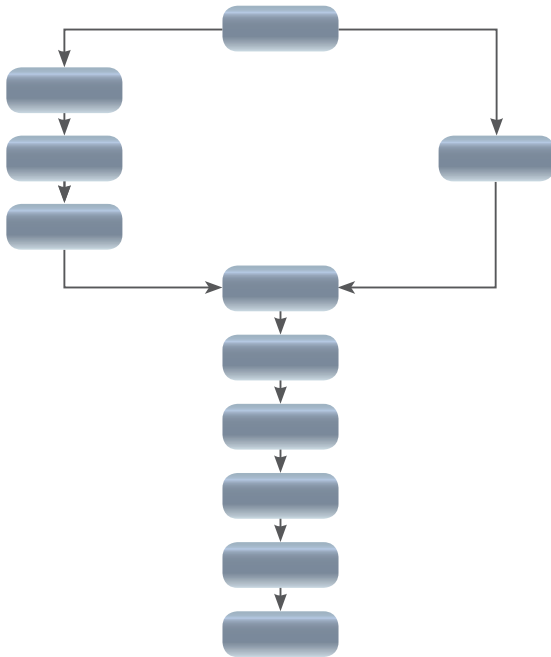
2018

2018 3672
3.58%



Zn 65
CRU 2017
1142.3
2018

80%



2018

2017

1340

2017

0.42

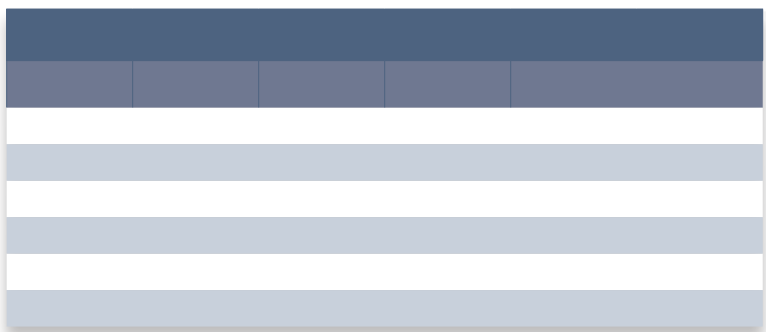
2018

580

0.42%

| 2014-2018 | 5 | | | | |
|-----------|------|------|------|------|------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 583 | 616 | 627 | 622 | 580 |
| | 90 | 94 | 1,01 | 96 | 98 |
| | 71 | 82 | 61 | 82 | 76 |
| | 65 | 68 | 69 | 64 | 68 |
| | 58 | 57 | 53 | 52 | 53 |
| | 1324 | 1371 | 1352 | 1342 | 1340 |

2018



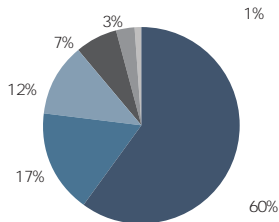
| |
|--|
| |
| |

2018
1.65%
0.80%
4.3%

| 2014-2018 | | | | | | | | | | | |
|-----------|------|-------|------|-------|------|-------|------|-------|------|-------|--|
| | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | | |
| | () | % | () | % | () | % | () | % | () | % | |
| | 111 | 19.00 | 114 | 18.50 | 125 | 20.10 | 121 | 19.30 | 119 | 20.52 | |
| | 108 | 18.50 | 114 | 18.50 | 100 | 16.08 | 109 | 16.70 | 84 | 14.48 | |
| | 75 | 12.90 | 81 | 13.10 | 71 | 11.41 | 78 | 13.70 | 59 | 10.17 | |
| | — | 50.40 | — | 50.20 | — | 47.59 | — | 52.10 | — | 45.17 | |

1.49%

2017





Pb 82
11.34g/cm³ 327.5 1740

90%

40-70%

20

2018

8800

2018
0.62%
501.50

1186.30

2017
2018

42.20%

67.27%

2018

501.50

2017

0.10%

1.05%
0.13%

| 2014 -2018 | 5 | | | | |
|------------|---------|---------|---------|---------|---------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 494.00 | 494.00 | 499.00 | 501.00 | 501.50 |
| | 110.70 | 113.50 | 114.80 | 114.60 | 115.80 |
| | 54.40 | 59.30 | 74.80 | 74.70 | 74.80 |
| | 47.90 | 50.10 | 51.60 | 56.20 | 63.00 |
| | 44.80 | 44.90 | 43.90 | 45.00 | 44.30 |
| | 1124.30 | 1135.50 | 1162.10 | 1179.00 | 1186.30 |

2018

0.29%
63.00
1.98%

| 2014 -2018 | 5 | | | | |
|------------|---------|---------|---------|---------|---------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 487.00 | 489.00 | 503.50 | 514.00 | 515.50 |
| | 162.00 | 162.50 | 164.40 | 167.80 | 171.50 |
| | 56.00 | 57.50 | 60.50 | 62.50 | 63.00 |
| | 52.00 | 54.30 | 57.80 | 59.00 | 61.00 |
| | 38.30 | 38.70 | 39.50 | 40.50 | 41.30 |
| | 1112.50 | 1128.70 | 1164.50 | 1188.70 | 1203.70 |

2018

CRU
0.10%

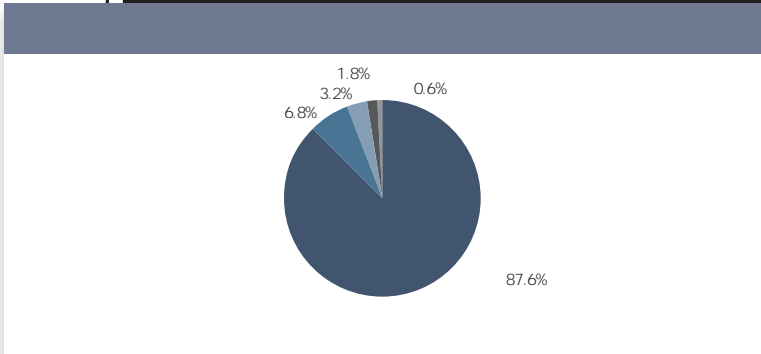
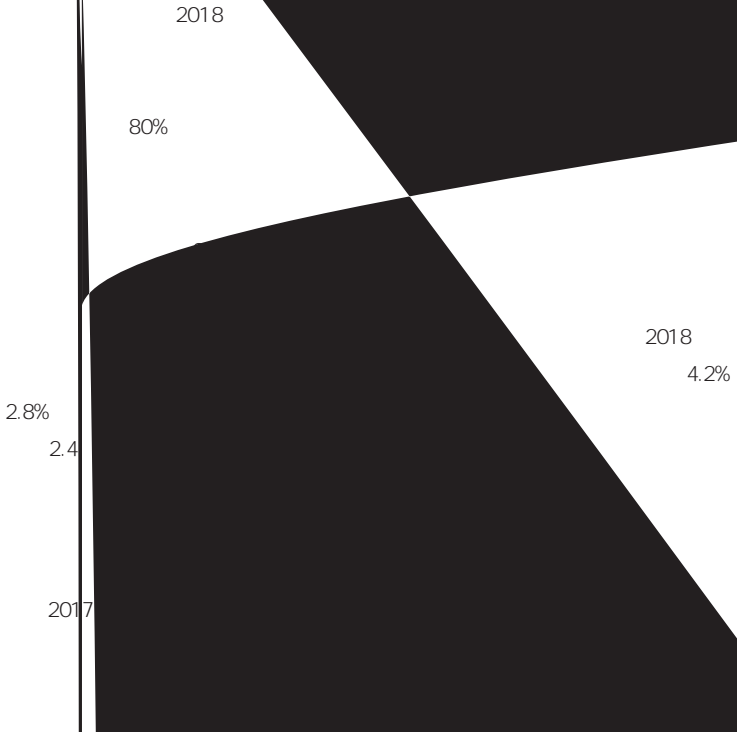
2018

42.20%

0.5

501.50

| 2014 | | | | | |
|------|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



| 2014 -2018 | | | | | |
|------------|--------|--------|--------|--------|--------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 487.00 | 490.00 | 502.00 | 511.50 | 515.50 |
| % | 1.97 | 0.62 | 2.45 | 1.59 | 0.29 |
| % | 44.1 | 43.8 | 43.5 | 43.29 | 42.83 |

CRU



231.9 Sn 50 7.365g/cm³(20)
2270

80%

99.0%

2018

ITRI

2018

1.1%

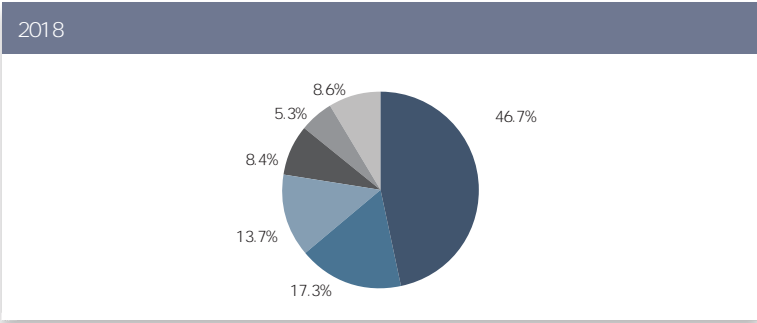
2018

36.80

| 2014 -2018 | 5 | | | | |
|------------|-------|-------|-------|-------|-------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 17.50 | 15.90 | 16.50 | 16.85 | 17.77 |
| | 6.98 | 6.74 | 6.69 | 8.00 | 8.15 |
| | 3.50 | 3.02 | 2.68 | 2.71 | 2.70 |
| | 1.54 | 1.55 | 1.68 | 1.64 | 1.70 |
| | 2.42 | 2.02 | 1.95 | 1.81 | 1.80 |
| | 36.94 | 33.50 | 33.84 | 36.00 | 36.80 |

2018

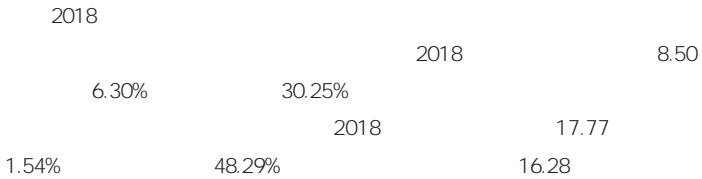
2018



2014 -2018

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|-------|-------|-------|-------|-------|
| | 16.35 | 15.06 | 15.78 | 16.10 | 16.00 |
| | 2.65 | 2.65 | 2.67 | 2.90 | 2.80 |
| | 2.95 | 3.05 | 2.94 | 2.90 | 3.20 |
| | 5.66 | 5.27 | 5.51 | 5.68 | 6.20 |
| | 35.07 | 33.75 | 34.60 | 36.20 | 36.90 |
| | 36.94 | 33.50 | 33.84 | 36.00 | 36.80 |

ITRI



91.62% 2018

63.25%

2018

9.6

8

2.5

9.4

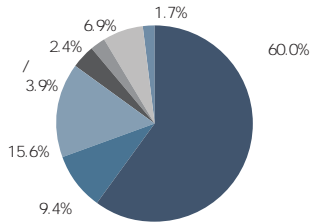
1.5

1.2%

16

6%

2018



2018

6423



2732 Ni 28 8.902 / 1453

15% 15-40% 99.8% 1.5-
GB/T6516-2010 Ni9999 Ni9996 Ni9990 Ni9950 Ni9920

2018 214.70 5.34%
30.83% 2018 66.19
2018

| 2014-2018 | 5 | | | | |
|-----------|--------|--------|--------|--------|--------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 71.80 | 59.08 | 56.85 | 58.79 | 66.19 |
| | 1.80 | 3.81 | 11.21 | 21.08 | 28.49 |
| | 18.11 | 18.63 | 19.14 | 18.53 | 16.96 |
| | 24.04 | 23.30 | 19.27 | 15.92 | 14.99 |
| | 15.00 | 15.44 | 15.80 | 14.33 | 12.51 |
| | 201.02 | 195.13 | 197.70 | 203.81 | 214.70 |

CRU

2018

50.82%

2018

65%

4%

| 2014-2018 | 5 | | | | |
|-----------|--------|--------|--------|--------|--------|
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 95.91 | 97.11 | 107.95 | 114.55 | 116.73 |
| | 15.12 | 13.92 | 14.72 | 16.38 | 17.81 |
| | - | - | 0.19 | 4.96 | 16.09 |
| | 14.98 | 13.11 | 13.45 | 13.94 | 14.35 |
| | 7.44 | 7.83 | 8.37 | 8.60 | 8.53 |
| | 188.63 | 186.43 | 201.71 | 214.88 | 229.68 |

70-120

2018

66.19 47.57

71.87% 15.20 22.96%

2018 4695.15

33.97% 2018 47.57

15.63%

2018 15.20

4 2018 2018

13.50 90%

1 /

2018 21.21 9.91%

2018 8.25

29.59%

2018 7.09

112.94%

影响有色金属价格变化的主要因素

有色金属系列期货合约

| | |
|--|---|
| | |
| | 5 / |
| | / |
| | 10 / |
| | ± 3% |
| | 1 12 |
| | 9:00 11:30 1:30 3:00 |
| | 15 |
| | |
| | 2010 1 GB/T467- (Cu-CATH-2) |
| | 99.95% |
| | 2010 A (Cu-CATH-1) ; BS EN 1978:1998 A (Cu- CATH-1) |
| | |
| | 5% |
| | |
| | 25 |
| | CU |
| | |

| | |
|--|---|
| | |
| | 5 / |
| | / |
| | 5 / |
| | ± 3% |
| | 1 12 |
| | 9:00 11:30 1:30 3:00 |
| | 15 |
| | |
| | 2008AL99.70 GB/T1196- 99.70% 1 GB/ T1196-2008AL99.85 AL99.90 2 P1020A |
| | |
| | 5% |
| | |
| | 25 |
| | AL |
| | |

| | |
|--|---|
| | |
| | 5 / |
| | / |
| | 5 / |
| | ± 4% |
| | 1 12 |
| | 9:00 11:30 1:30 3:00 |
| | 15 |
| | |
| | 2008.ZN99.995 99.995% 1179.2003.Z1 99.995% |
| | GB/T470- BS EN |
| | |
| | 5% |
| | |
| | 25 |
| | ZN |
| | |

| | |
|--|-------------------------|
| | |
| | 5 / |
| | / |
| | 5 / |
| | ± 4% |
| | 1 12 |
| | 9:00 11:30 1:30 3:00 |
| | 15 |
| | |
| | 2013Pb99.994 99.994% |
| | GB/T 469- |
| | |
| | 5% |
| | |
| | 25 |
| | PB |
| | |



| | |
|--|--|
| | |
| | 1 / |
| | / |
| | 10 / |
| | ± 4% |
| | 1-12 |
| | 9:00-11:30 1:30-3:00 |
| | 15 |
| | |
| | 2010 Sn99.90A GB/T 728- 99.90% 2010 Sn99.90AA GB/T 728- 99.90% Sn99.95A Sn99.95AA 99.95% Sn99.99A 99.99% |
| | |
| | 5% |
| | |
| | 2 |
| | SN |
| | |

有色金属系列期货交易有关规定

1

2

500

1

3

4

| | |
|--|-----|
| | |
| | |
| | 5% |
| | 10% |
| | 15% |
| | 20% |

| | | (%) | | (%) () | | () | | () | |
|--|----|-----|----|------------|-------|------|------|------|------|
| | | | | | | | | | |
| | 16 | 25 | 16 | 10 | 10 | 3000 | 3000 | 1000 | 1000 |
| | | | 16 | 8000 | 8000 | | | | |
| | 20 | 25 | 20 | 10 | 10 | 3000 | 3000 | 1000 | 1000 |
| | | | 20 | 10000 | 10000 | | | | |
| | 12 | 25 | 12 | 10 | 10 | 2400 | 2400 | 800 | 800 |
| | | | 12 | 6000 | 6000 | | | | |
| | 10 | 25 | 10 | 10 | 10 | 1800 | 1800 | 600 | 600 |
| | | | 10 | 5000 | 5000 | | | | |
| | 12 | 25 | 12 | 10 | 10 | 1800 | 1800 | 600 | 600 |
| | | | 12 | 6000 | 6000 | | | | |
| | 3 | 25 | 3 | 10 | 10 | 600 | 600 | 200 | 200 |



1

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3

4

5



1

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1

14:00

2

16:00

| | | | |
|--|----|-----------|-------------------|
| | | | |
| | 25 | $\pm 2\%$ | 25 $\pm 0.2\%$ |
| | 25 | $\pm 2\%$ | 25 $\pm 0.1\%$ |
| | 25 | $\pm 2\%$ | 25 $\pm 0.1\%$ |
| | 25 | $\pm 2\%$ | 25 $\pm 0.1\%$ |
| | 6 | $\pm 3\%$ | 6 $\pm 0.1\%$ |
| | 2 | $\pm 3\%$ | 2 $\pm 0.1\%$ |

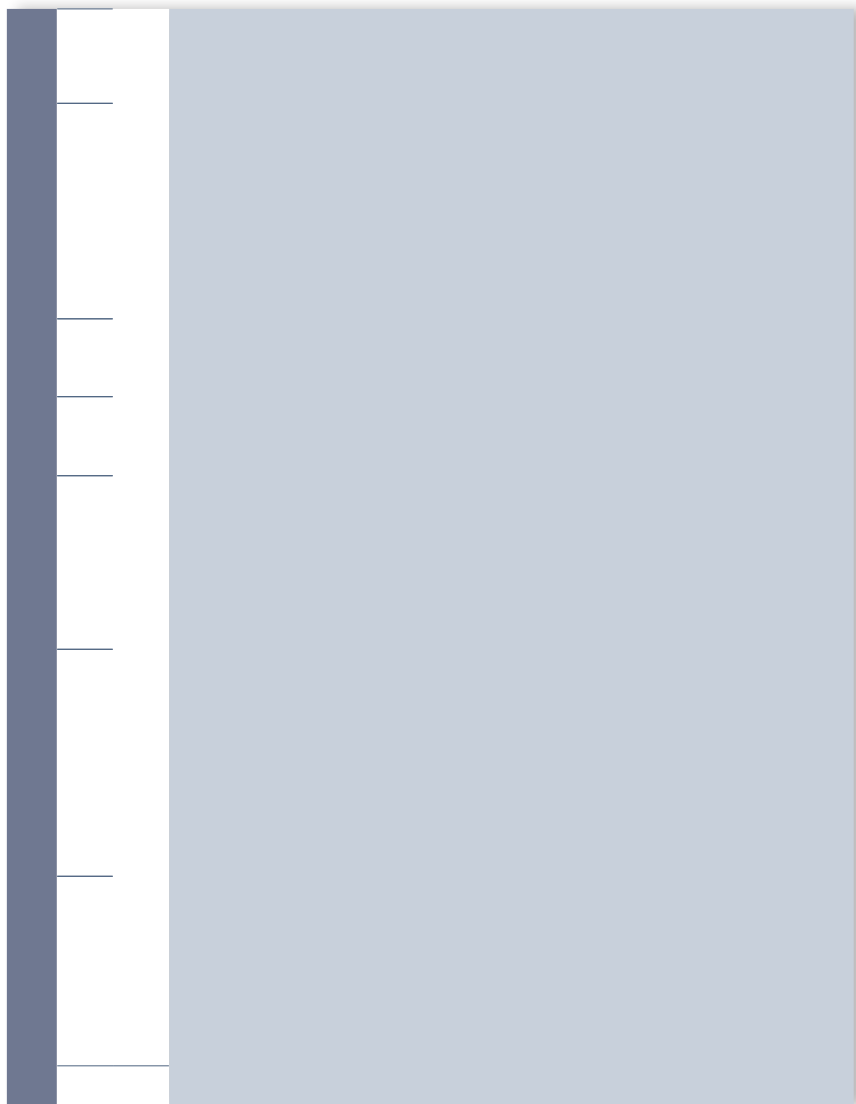
15:00

附录

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| | | | | | | | / | |
| 5 | 1351 | (021)68281891 13817196510 (021)20956192 13901785245 Fax:(021)68281044 | 201611 | | | | | |
| | | (021)68281891 (021)68280450 Fax:(021)68281044 | 201308 | | | | | |
| 6 | 195 | (021)68280478 13564496979 Fax:(021)68280497 | 201308 | | | | | |
| 7 | 837 | (0574)86378767 (0574)86370854 Fax:(0574)86370854 | 315200 | (|) | | | |
| 8 | 299 | (0574)27685013 13757477277 (0574)27685013 13819891900 Fax:(0574)86298111 | 315200 | | | | | |
| 9 | | (0510)83268687 Fax:(0510)83071987 | 214185 | | | | | |
| 10 | 1330 | (020)32288576 13168881080 13929172282 Fax:(020)32288576 | 510730 | (|) | | | |

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|----|--|------|---|--|--------|--|-----|----------|
| | | | | | | | / | |
| 11 | | 166 | (0757)88015031 (0757)88015030 18588033336 Fax: (0757)88015022 | | 528000 | | () | |
| 12 | | 11 | (0701)7072930 (0701)7072932 Fax: (0701)7072941 | | 335000 | | | 120 / |
| 13 | | 298 | (0519)81081608 18151721003 (0519)81081607 17712301601 Fax: (0519)81081606 | | 213012 | | () | |
| 14 | | | (021)37601000 13901785660 (021)37825272 13917145725 Fax: (021)37601128 | | 214200 | | () | |
| 15 | | 4088 | (021)63221003 Fax: (021)56441555 | | 200940 | | | |
| 16 | | 2249 | (021)66630369 815 13761693059 Fax: (021)66630503 | | 201900 | | | |
| 17 | | 288 | (021)20963208 15821987825 (021)20963128 13817283912 | | 201306 | | | |



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|----|------------|---|--------|-----|---|--|
| | | | | | / | |
| 10 | 299 | (0574)27685013 13757477277 (0574)27685013 13819891900 Fax: (0574)86298111 | 315200 | | | |
| 11 | | (0510)83268687 Fax: (0510)83071987 | 214185 | | | |
| 12 | 1351 | (021)68281891 13817196510 (021)209561921 13901785425 Fax: (021)68281044 | 201611 | | | |
| | 389 | (021)68281891 (021)68280450 Fax: (021)68281044 | 201308 | | | |
| 13 | 195 | (021)68280478 13564496979 Fax: (021)68280497 | 201308 | | | |
| 14 | 4088 | (021)56441555 13611947518 (021)56445301 13501724955 Fax: (021)56441555 | 200940 | | | |
| 15 | | (0757)81082830 Fax: (0757)56441555 | 528222 | () | | |
| 16 | () 105 | (0513)81806308 18112280078 (0513)81806309 Fax: (0513)81806318 | 226600 | | | |
| 17 | 298 | (0519)81081608 18151721003 (0519)81081607 17712301601 Fax: (0519)81081606 | 213012 | () | | |

| | | | | |
|----|----------------|---|------------------|------------|
| 18 | 1347 | (021)36620106 | 200439 | / |
| 19 | 518-1 | (021)37601000 13901785660 (021)37825272 13917145725 Fax: (021)37601128 1810187928 15618283008 Fax: (021)37825270 | 214200 | () |
| 20 | 1 | (0510)83325163 13812288211 Fax: (0510)83325163 (0519)69813935 13584536626 Fax: (0519)68862962 | 214187 | |
| 21 | 28 | (0371)64376376 13939052796 Fax: (0371)64376874 | 213000 | |
| 22 | 12 431 2 | (0371)64376376 13939052796 Fax: (0371)64376874 (0371)64318960 | 451200 451200 | 120 120 |
| 23 | 223 | 13613797939 15898828808 Fax: (0379)62267189 13983033118 Fax: (023)68075817 | 471000 | 433 |
| 24 | 200 | (0539)8272346 15106690379 Fax: (0539)8272537 | 276000 | 80 50 |

| | | | | | | |
|----|-------|-------|--|--------|-----|-----|
| | | | | | / | |
| 25 | - | 1 | (0531)87906878 18560169066 Fax: (0531)87909788 | 251000 | | 100 |
| | - | | (0531)87906878 18560169066 Fax: (0531)87909788 | 276034 | | 50 |
| 26 | 3520 | | 15122919622 15522379223 (022)59823612 (022)59823602 Fax: (022)59823605 | 300461 | | 150 |
| 27 | | 2298 | (022)84828366 13920757326 15822972951 Fax: (022)84828553 | 300300 | | 150 |
| 28 | | 108 | (0572)6550067 18768212333 | 313100 | | |
| 29 | 18 | | (0371)68913197 (0371)68913162 13838282386 | 450041 | | 120 |
| 30 | | 1 | (0757)85130718 8028 18924576565 | 528216 | () | |
| 31 | 199 | 1-365 | (023)67398679 13808374737 (023)65210364 (023)65686536 18983918757 | 401333 | () | 80 |
| 32 | 1 () | | (0417)6268751 13504170439 (0417)6260269 13940781058 | 115007 | | 150 |

| | | | | | |
|-------|-------------|--|--------|---------|---|
| 1 | 1289 | 15317578691 Fax: (021)39003152 | 200333 | () | / |
| 2 | 495 | (021)33794175 Fax: (021)33790685 | 201900 | () () | |
| | 310 137 257 | (021)62500165 Fax: (021)5284680 (021)56681853 Fax: (021)56680969 | 200436 | () | |
| 3 () | 240 | (021)56440120 (021)56446738 Fax: (021)56443044 | 200940 | | |
| | 8 | (0512)88877972 Fax: (0512)88877797 | 215151 | () | |
| 4 | 3501 | (021)36521992 (021)51031153 Fax: (021)36521983 Fax: (021)36521985 | 200435 | | |
| | 2222 | (021)36521995 (021)51247221 Fax: (021)36521987 Fax: (021)36521989 | 201111 | | |

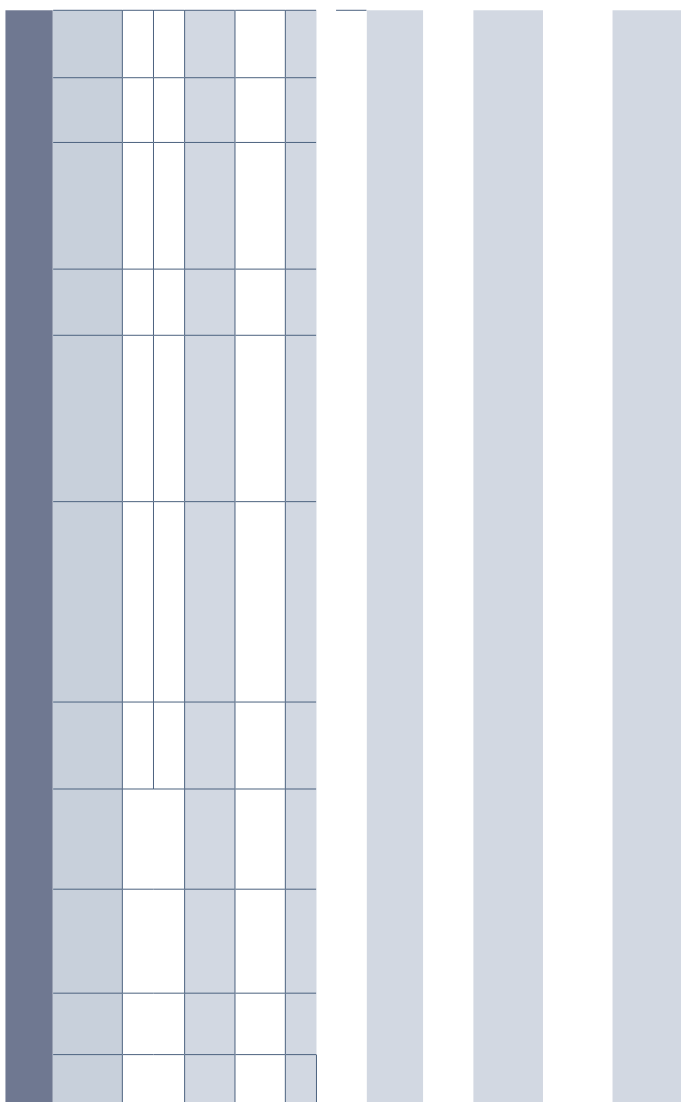
| | | | | | | | | |
|----|-----|--------|---|--------|--|-----|---|--|
| | | | | | | | / | |
| 5 | | 1351 | (021)68281891 13817196510 (021)20956192 13901785425 Fax: (021)68281044 | 201611 | | | | |
| 6 | | | (0757)81162307 18927759921 (0757)81162300 18028193339 Fax: (0757)81162309 | 528222 | | () | | |
| 7 | | 166 | (0757)88015031 18588033336 (0757)88015030 Fax: (0757)88015022 | 528000 | | () | | |
| 8 | | 98 () | (0571)56725585 (0571)56725565 Fax: (0571)88026467 | 310015 | | | | |
| | | | (0571)56129397 15257120579 Fax (0571)56129398 | 311254 | | () | | |
| 9 | 837 | 331 | (0574)86378767 (0574)86370854 Fax: (0574)86370854 | 315200 | | () | | |
| 10 | | 299 | (0574)27685013 13757477277 (0574)27685013 13819891900 Fax: (0574)27693476 | 315200 | | | | |

| | | | | | | | |
|----|---|---------|--|---|--|--------|-----|
| 11 | | | | (0510)83076358 Fax: (0510)83071987 | | 214185 | / |
| 12 | | 4088 | | (021)56441555 13611947518 (021)564415301 13501724955 Fax: (021)56441555 | | 200940 | |
| 13 | | | | (0757)81082830 Fax: (0757)56441555 | | 528222 | () |
| 14 | 0 | 321 | | (0757)85760802 13690748800 13929180785 Fax: (0757)85760803 | | 528100 | () |
| 15 | | 1347 | | (021)36620106 | | 200439 | () |
| 16 | | 105 () | | (0513)88763666 (0513)81806308 Fax (0513)81806318 | | 226600 | |
| 17 | | 28 | | (0519)69813935 13584536626 Fax: (0519)68862962 | | 213000 | |

| | | | | | | |
|----|------|---|--------|-----|---|-------|
| 5 | 166 | (0757)88015031 (0757)88015030 Fax:(0757)88015022 | 528000 | () | / | 130 / |
| 6 | 837 | 331 (0574)86378767 (0574)86370854 Fax:(0574)86370854 | 315200 | () | | |
| 7 | | (0571)561 29386 15257120579 Fax:(0571)561 29386 | 311254 | () | | |
| 8 | 2298 | (022)84828862 15620035893 Fax:(022)84828553 | 300300 | | | 80 / |
| 9 | 3520 | (022)59823608 13920186662 15122919622 Fax:(022)59823608 | 300461 | | | 80 / |
| 10 | 1 | (0510)83325163 13812288211 Fax:(0510)83325163 | 214187 | | | |
| 11 | 108 | (0572)6550067 18768212333 (0572)6550070 13967251888 Fax:(0572)6236333 | 313100 | | | |

| | | | | | | | |
|----|--|------------|--|--|-----|--------|---|
| 8 | | | | (0574)86820043 189066693001 Fax:(0574)86884204 | | 315800 | / |
| 9 | | 298 | | (0519)81081608 18151721003 (0519)81081607 17712301601 Fax:(0519)81081606 | () | 213012 | |
| 10 | | 1351 | | (021)68281891 13817196510 (021)20956192 13901785245 Fax:(021)68281044 | | 201611 | |
| 11 | | 4088 | | (021)56445301 13501724955 | | 200940 | |
| | | 156 | | (021)65969040 13761693059 | | 201306 | |
| 12 | | 2249 | | (021)66630369 815 13761693059 Fax:(021)66630503 | | 201900 | |
| 13 | | 275 | | (021)64501562 13918703361 | | 200241 | |
| 14 | | () 255 | | (021)53099750 13761163028 Fax:(021)63355301 | | 201308 | |

| | | | | | | | | | |
|---|-----|------|--|--------|-----|--|--|--|---|
| | | | | | | | | | |
| | | | | | | | | | / |
| 1 | | 1289 | 15317578691 Fax:(021)39003150 | 200333 | () | | | | |
| 2 | | 137 | Fax:(021)52846807 | 200436 | () | | | | |
| | | 32 1 | (510)85361369 (510)85360365 Fax:(510)85362772 | 214011 | | | | | |
| 3 | | 1330 | (020)32288576 13168881080 13929172282 Fax:(020)32288576 | 510730 | () | | | | |
| | | 0 | | | | | | | |
| 4 | | 166 | (757)88015031 18588033336 (757)88015030 Fax:(757)88015022 | 528000 | () | | | | |
| | | 8 | (0512)88877972 Fax:(0512)88877797 Fax:(0512)27693476 | 215151 | () | | | | |
| 5 | () | | | | | | | | |



| | | | | | | | | | | | (kg) | / |
|------|-----------|--------------|----------|-----------|---------|--|--------------|--|--|--|------|----|
| 2001 | | El Paso (TX) | 20081224 | P*D | A () | | 972°959'18 | | | | 2250 | 11 |
| 2002 | (CODELCO) | Ventanas | 20090216 | ENM | A () | | 960°980'14 | | | | 2300 | 11 |
| 2003 | (CODELCO) | Potrerrillos | 20090330 | AE | A () | | 970°780'13 | | | | 2800 | 9 |
| 2004 | | Huelva | 20090330 | FMS | A (I) | | 985°930'7 | | | | 3100 | 8 |
| 2005 | | Maifutra | 20090417 | MCM | A () | | 970°957'15 | | | | 2300 | 11 |
| 2006 | LS-Nikko | () | 20090417 | ONSAN I | A (-K) | | 1070°932'13 | | | | 2500 | 10 |
| 2007 | LS-Nikko | () | 20090417 | ONSAN II | A (-K) | | 1020°980'11 | | | | 2300 | 11 |
| 2008 | | Mejillones | 20090506 | MIC-P | A () | | 960°1000'6 | | | | 1400 | 18 |
| 2009 | | Mejillones | 20090506 | MIC-T | A () | | 1100°1000'10 | | | | 1950 | 13 |
| 2010 | | Magna (UT) | 20090506 | KIUC | A () | | 990°993'5 | | | | 2520 | 10 |
| 2011 | (CODELCO) | Chupizmata | 20090506 | CCC SX-EW | A () | | 1100°920'7 | | | | 2300 | 11 |

| | | | | | | | | | | | | | | | (kg) | / |
|------|--|----------------------------|----------|---------|---------|--|--|--|--|--|--|----------------|--|------|------|---|
| 2012 | | G7ogow | 20090506 | HMG-B | A () | | | | | | | 1030*1030*12 | | 1900 | 13 | |
| 2013 | | G7ogow | 20090506 | HMG-S | A () | | | | | | | 910*910*14 | | 1900 | 13 | |
| 2014 | | Legnica | 20090506 | HML | A () | | | | | | | 918*785*14 | | 2100 | 12 | |
| 2015 | | Dias D. Avila/ Bahia | 20090507 | CbM | A () | | | | | | | 990*970*15 | | 2500 | 10 | |
| 2016 | | Antofagasta | 20090507 | MB | A () | | | | | | | 1000*1100*8 | | 2500 | 10 | |
| 2017 | | Copiapó | 20090507 | MV | A () | | | | | | | 1004*1000*8 | | 2500 | 10 | |
| 2018 | | Antofagasta | 20090507 | ESOX | A () | | | | | | | 1000*1000*8-10 | | 2500 | 10 | |
| 2019 | | Iquique | 20090507 | GMCC | A () | | | | | | | 1000*1000*5 | | 2500 | 10 | |
| 2020 | | Quebec | 20090514 | NORANDA | A (-K) | | | | | | | 937*949*14 | | 3100 | 8 | |
| 2021 | | Calama | 20090514 | ABRA | A () | | | | | | | 1000*1000*5 | | 2500 | 10 | |
| 2022 | | Arequiba- Uchumayo | 20090514 | SMCV | A () | | | | | | | 1000*1020*20 | | 3125 | 8 | |

| | | | | | | | (mm) | (kg) | / |
|------|--|--|----------|--|--|--------|-------------|------|----|
| 1001 | | | 19931105 | | | | 805*184*85 | 20 | 54 |
| 1002 | | | 19931105 | | | | 805*184*85 | 20 | 54 |
| 1003 | | | 19931105 | | | | 805*184*85 | 20 | 54 |
| | | | | | | | 660*172*90 | 15 | 44 |
| 1004 | | | 19931105 | | | | 805*184*85 | 20 | 54 |
| | | | | | | | 805*184*85 | 20 | 54 |
| 1005 | | | 19931105 | | | LL | 795*165*85 | 20 | 54 |
| | | | | | | LL2 | | | |
| 1006 | | | 19931105 | | | BTL | 800*180*90 | 20 | 54 |
| | | | | | | | 730*165*85 | 15 | 54 |
| | | | | | | | | 44 | |
| 1007 | | | 19931105 | | | | 740*180*88 | 20 | 59 |
| 1008 | | | 19931105 | | | QTX QX | 820*190*85 | 20 | 54 |
| 1009 | | | 19941101 | | | | 805*184*85 | 20 | 54 |
| 1010 | | | 19941101 | | | | 805*184*85 | 20 | 54 |
| 1011 | | | 19941101 | | | | 805*185*85 | 20 | 54 |
| | | | | | | | 800*180*90 | 20 | 54 |
| | | | | | | | 800*180*90 | 20 | 54 |
| 1012 | | | 20160621 | | | | 800*180*90 | 20 | 54 |
| | | | 20171120 | | | | 820*188*108 | 25 | 44 |
| | | | | | | | 805*184*85 | 20 | 54 |
| 1013 | | | 19960101 | | | WF | | | |
| | | | | | | WF | 823*183*110 | 25 | 44 |
| | | | 20180514 | | | | 750*174*76 | 20 | 54 |
| 1014 | | | 19960101 | | | | 800*175*90 | 20 | 54 |
| | | | 20161031 | | | | 825*188*108 | 25 | 44 |
| | | | 20190422 | | | | | | |
| 1015 | | | 19970101 | | | | 740*180*88 | 20 | 54 |
| 1016 | | | 19970601 | | | | 740*180*88 | 20 | 54 |
| 1017 | | | 19991101 | | | | 805*184*85 | 20 | 54 |
| 1018 | | | 19991101 | | | | 805*180*90 | 20 | 54 |
| 1019 | | | 20000726 | | | | 805*184*85 | 20 | 54 |
| 1020 | | | 20000726 | | | | 805*184*85 | 20 | 54 |
| 1021 | | | 20030714 | | | ZZ LX | 805*184*85 | 20 | 54 |
| 1022 | | | 20060525 | | | CYL | 790*180*90 | 20 | 54 |

| | | | | | | | (mm) | (kg) | / |
|------|--|-----------|-------------------|----------|--|-------------|-------------|------|----|
| 1023 | | | | 20050525 | | | 805*184*85 | 20 | 54 |
| 1024 | | | | 20050525 | | | 805*184*85 | 20 | 54 |
| 1025 | | | | 20050919 | | AAC | 815*170*65 | 20 | 54 |
| 1026 | | | | 20050919 | | | 795*180*85 | 20 | 54 |
| 1027 | | | | 20061102 | | ZF | 760*180*90 | 20 | 54 |
| 1028 | | | | 20070925 | | WQMI | 730*180*90 | 20 | 54 |
| 1029 | | | | 20081117 | | BHL | 780*190*80 | 20 | 54 |
| 1030 | | | | 20090219 | | H&H | 805*184*90 | 20 | 54 |
| 1031 | | | | 20091010 | | CHALCO | 740*165*90 | 20 | 49 |
| 1032 | | | | 20120412 | | ZFSY | 715*185*85 | 20 | 54 |
| 1033 | | | | 20140310 | | | 810*180*90 | 20 | 54 |
| 1034 | | | | 20160523 | | | 800*180*90 | 20 | 54 |
| 1035 | | | | 20160706 | | HONGJIAO | 800*180*90 | 20 | 54 |
| 1036 | | | | 20160817 | | HAL | 805*185*85 | 20 | 54 |
| 1037 | | | | 20171011 | | JJYS | 825*190*105 | 25 | 44 |
| 1038 | | | | 20180702 | | | 825*190*105 | 25 | 44 |
| 2001 | | | Portland (VIC) | 20090429 | | PORTLAND | 750*180*110 | 22.5 | 44 |
| 2002 | | (UCRUSAL) | | 20111031 | | RUSAL J | 740*170*114 | 22 | 44 |
| 2003 | | (UCRUSAL) | | 20111031 | | RUSAL KH | 700*153*115 | 22 | 44 |

| | | | | | | | | (mm) | (kg) | / | |
|------|--|--|--|--------|--|--|------------|------------|-------|----|------------|
| 1001 | | | | 200703 | | | | 410*205*47 | 20-25 | 46 | |
| 1002 | | | | 200703 | | | | 480*240*45 | 23-25 | 40 | |
| | | | | | | | | 405*200*45 | | | |
| 1003 | | | | 200703 | | | | 475*235*40 | 25 | 40 | |
| | | | | | | | | 480*240*40 | | | |
| 1004 | | | | 200703 | | | | 415*210*45 | 20-25 | 46 | |
| | | | | | | | | 450*220*40 | | | |
| 1005 | | | | 200703 | | | | 428*225*55 | 28 | 46 | |
| | | | | | | | | 201607 | | | 448*225*55 |
| | | | | | | | | | | | 200703 |
| 1007 | | | | 200703 | | | 415*205*50 | 22-25 | 42 | | |
| 1008 | | | | 200703 | | | | 460*230*40 | 25 | 46 | |
| 1009 | | | | 200703 | | | | 415*205*50 | 25 | 38 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | | | | | | | (mm) | (kg) | / |
|------|--|--|-----|--------|-------------------|--|--|--------------------------|----------|----------|
| 1013 | | | | 201511 | | | | 410*205*50 410*205*46 | 22 24 | 46 46 |
| 1014 | | | | 200909 | | | | 435*215*40 | 23 | 56 |
| 1015 | | | | 200909 | OL | | | 420*210*50 | 23 | 46 |
| 1016 | | | | 201005 | TF | | | 420*215*45 | 25 | 46 |
| 1017 | | | | 201011 | SKS | | | 415*210*50 | 23 | 46 |
| 1018 | | | | 201211 | | | | 455*220*40 | 24 | 44 |
| 1019 | | | | 201405 | | | | 460*230*45 | 19 | 46 |
| 1020 | | | | 201510 | | | | 480*245*40 | 25 | 40 |
| 1021 | | | | 201512 | | | | 480*245*40 | 23 | 44 |
| 1022 | | | | 201602 | | | | 430*210*50 | 24 | 46 |
| 1023 | | | () | 201701 | | | | 420*210*50 | 22 | 46 |
| 2001 | | | | 201212 | Nyrstar A-Z Z1 | | | 480*240*39 | 24 | 40 |
| 2002 | | | | 201510 | EMC-K | | | 448*224*34 | 20 | 48 |
| 2003 | | | | 201510 | HSC- SHG | | | 440*220*32 | 20 | 48 |

| | | | | | | | | (mm) | (kg) | / |
|------|--|--|--|--------|--|---------|--|------------|------|----|
| 1001 | | | | 201103 | | | | 620*120*80 | 48 | 25 |
| 1002 | | | | 201103 | | | | 640*115*75 | 48 | 20 |
| 1003 | | | | 201103 | | YUGUANG | | 620*120*80 | 48 | 20 |
| 1004 | | | | 201103 | | SXS | | 640*120*80 | 46 | 20 |
| 1005 | | | | 201103 | | | | 625*120*75 | 48 | 20 |
| 1006 | | | | 201103 | | | | 625*125*85 | 48 | 20 |
| 1007 | | | | 201103 | | | | 620*120*80 | 48 | 20 |
| 1008 | | | | 201103 | | | | 620*120*75 | 48 | 20 |
| 1009 | | | | 201103 | | | | 620*120*78 | 48 | 20 |
| 1010 | | | | 201103 | | BYXY | | 640*115*75 | 42 | 25 |
| 1011 | | | | 201103 | | | | 640*120*75 | 46 | 20 |
| 1012 | | | | 201103 | | | | 620*120*80 | 48 | 25 |
| 1013 | | | | 201103 | | ZNF | | 635*115*80 | 48 | 20 |
| 1014 | | | | 201103 | | CY | | 625*125*78 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | / | (mm) | (kg) | / |
|------|--|--|------------------|--|--|---|------------------------|------|---|
| 1001 | | | 201503 | | | Ni9996() Ni9996() | 880*860*3 | 1500 | 4 |
| 1002 | | | 201503 | | | Ni9996() | 910*910*4 | 1500 | 4 |
| 1003 | | | 201503 | | | Ni9996() | 960*920*4 | 1500 | 4 |
| 1004 | | | 201503 201805 | | | Ni9996() | 950*850*4 970*865*7 | 1500 | 4 |
| 1005 | | | 201503 | | | Ni9996() | 910*900*8 | 1500 | 4 |
| 1006 | | | 201503 | | | Ni9996() | 800*700*6 | 1000 | 6 |
| 2001 | | | 201506 | | | Ni99.8() | 985*800*5 | 1500 | 4 |
| 2002 | | | 201506 | | | NORILSK COMBINE H-1 SEVERONICKEL COMBINE H-1 | 1135*935*6 | | |
| | | | | | | | | | |

| | | | | | | | | | (mm) | (kg) | / |
|------|--|-----|--|--------|-----|--|--|--|-------------|------|----|
| 1001 | | | | 201503 | YT | | | | 420*105*100 | 25 | 40 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1002 | | | | 201503 | | | | | 475*130*85 | 25 | 40 |
| 1003 | | | | 201503 | | | | | 400*105*100 | 25 | 40 |
| 1004 | | | | 201503 | | | | | 420*105*100 | 25 | 40 |
| 1005 | | () | | 201507 | () | | | | 425*125*90 | 25 | 40 |
| 1006 | | | | 201511 | | | | | 420*105*100 | 25 | 40 |
| 1007 | | | | 201512 | YS | | | | 410*100*100 | 25 | 40 |

1

| | | | |
|----|----------|----|----------|
| | | | |
| 1. | 0.70 / * | 1 | 0.50 / * |
| | | | 0.60 / * |
| | 0.30 / * | | 0.40 / * |
| | 0.40 / * | | 0.50 / * |
| | 0.30 / * | | |
| | | | |
| 1. | 26 / | 1. | |
| 2. | 18 / | 2. | 18 / |
| | 30 / | | 30 / |
| | | | |
| 1. | 26 / | 1. | |
| 2. | 15 / | 2. | 15 / |
| | 25 / | | 25 / |
| | 5 / | | |
| | 5 / | | |
| | 2 / | | 2 / |
| | | | |
| | | | |
| 1. | 20 / | 1. | 20 / |
| 2. | 35 / | 2. | 35 / |
| 3. | 30 / | | |
| 4. | 40 / | | |

2

| | | |
|--|-----|-----|
| | 1 / | 1 / |
|--|-----|-----|

3

100 /

| | |
|---|----------|
| | 1.25 / * |
| | 1.50 / * |
| 1 | 35 / |
| 2 | 30 / |
| 3 | 40 / |
| 1 | 35 / |
| 2 | 25 / |
| 3 | 35 / |
| | 5 / |
| | 2 / |
| | 40 / |
| | 3 / |



| 1 | | () () | 021-58603193 13916331487 020-38290257 13902308997 |
|---|--|------------|--|
| 2 | | | 021-64174564 13585515287 13311671069 |
| 3 | | | 021-38620642 13636512268 |
| 4 | | | 021-56640165 13524565524 |

| 1 | | () () () | 021-58603193 13916331487 020-38290257 13902308997 022-23323720 13920440701 |
|---|--|-------------------|---|
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| 4 | | | 021-56640165 13524565524 |

| 1 | | | 021-58603193*217 13916331487 010-84603658 |
|---|--|--|---|
| 2 | | | 021-64174564 13585515287 13311671069 |
| 3 | | | 021-38620642 13636512268 |
| 4 | | | 021-56640165 13524565524 |



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Zn
Ni
Sn



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