

MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao)
IOPI62 62% Fe Fines RMB/t



897

1 0.11%

November 25th, 2020

Iron Ore Seaborne (CFR Qingdao)
IOSI62 62% Fe Fines USD/dmt



129.45

0.45 0.35%

November 25th, 2020

Iron Ore Port Stock (FOT Qingdao)
IOPI65 65% Fe Fines RMB/t

1023

0.00%

November 25th, 2020

Iron Ore Seaborne (CFR Qingdao)
IOSI65 65% Fe Fines USD/dmt



141.05

0.55 0.39%

November 25th, 2020

Iron Port Stock (FOT Qingdao)
IOPI58 58% Fe Fines RMB/t



805

2 0.25%

November 25th, 2020

Iron Ore Port Stock (FOT Qingdao)
IOPLI 62.5% Fe Lump RMB/t



943

4.08%

Week Ending November 20th, 2020

Exchange Traded Contracts

DCE Iron Ore 62% Fines I2101 (Jan) RMB/t (3pm close)



880.00

4.00 0.46%

November 25th, 2020

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines Dec'20 USD/dmt



125.25

0.52 0.42%

November 25th, 2020 (5.30 pm Print)

C5, W. Australia - Qingdao USD/t

SHFE Rebar RB2101 (Jan) RMB/t



3865

-45.00 -1.1**5**9

November 25th, 2020

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



November 24th 2020

13.37

-0.11 -0.82%



6.96

-0.20 -2.79%

November 24th 2020

Steel Rebar (China Domestic) RMB/t

Steel Price



4250

120 2.91%

Week Ending November 20th 2020

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



120.24

-0.82 -0.68%

Week Ending November 20th, 2020

Steel Inventory in China million tonnes



11.82

0.94 -7.37%

Week Ending November 20th, 2020

Steel Price

Steel HRC (China Domestic) RMB/t

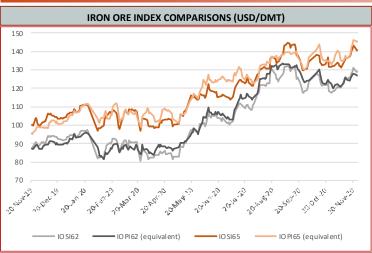


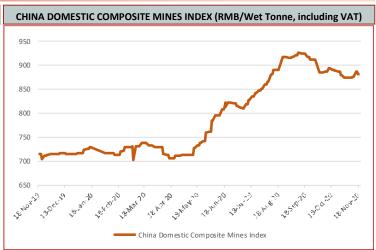
4160

90 2.21%

Week Ending November 20th 2020

MMi D	aily Iron O	re Inde	x Report											Nover	nber 25	th, 2020
						IRON OR	RE PORT S	TOCK INDEX	(IOP	I)						
Novembe	r 25th, 2020		FOT C	Qingdao ((inc. 13% VAT)	, RMB/wet	tonne			CFR	Qingd	ao Equivaler	nt (exc. 139	% VAT), USD,	dry tonne	1
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low ²	High ²	Pri	ice Ch	nange	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	897	1	0.1%	886	795	619	983	127	7.13	0.26	0.2%	124.72	106.58	81.37	133.69
IOPI58	58% Fe Fines	805	2	0.2%	796	708	531	892	114	1.92	0.40	0.3%	112.89	95.50	70.02	122.73
OPI65	65% Fe Fines	1023	0	0.0%	991	901	730	1031	145	5.57	0.13	0.1%	140.06	121.23	96.05	143.73
		II	RON ORE SEA	ABORNE	E INDEX (IOSI)						MARKI	ЕТ СОММ	ENTARY		
Novembe	r 25th, 2020			CFR Q	(ingdao, USD/c	dry tonne			market p	players in Tangsha	n state that r	nost steel mills bough	t only to satisfy nea	mills remain cautious d r-term demand, as curi	ently affected by rai	ny and snowy
ndex	Fe Content	Price	Change	Change	% MTD	YTD	Low ²	High ²	prices. A	According to SMM,	rebar profit	margins hover around	400yuan/mt, based	duction will continue to d on an iron ore price o	f 129USD/mt. PBF co	included at 875-
OSI62	62% Fe Fines	129.45	0.45	0.35%	6 125.39	105.05	80.65	132.25				decreasing domestic c recently picked up .	oncentrate invento	ries and falling pellet su	ipply, mill demand to	or mainstream
IOSI65	65% Fe Fines	141.05	0.55	0.39%	6 136.97	118.82	97.05	144.85								
Week Ending November FOT Giordes (inc. 120(NAT) PMP (unchange)																
Neek Endir 20th, 2020	ng November		FOT C	Qingdao ((inc. 13% VAT),	, RMB/wet	tonne			CFR	Qingda	o Equivalen	t (exc. 13%	% VAT), USD/		
Index	Fe Content	Price	W-o-W	Change	% MTD	YTD	Low ²	High ²	Pri	ice W	V-oW	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	943	37	4.1%	912	881	792	969	128	3.31	5.91	4.83%	123.05	113.11	97.81	128.31
			IRO	N ORE D	OOMESTIC CO	NCENTRA	TE SPOT P	RICE ASSES	SMEN	ITS AND	COMP	OSITE INDE	Х			
	ing November 2						nne (exclu							e (excluding t		
Province	Region	Produc	-	Basis	This week	Change		Low ²		ligh ²		week	Change %	Low		High ²
Hebei	Hanxing	66% Fe	Concentrate	Dry	1009	2.7%		763		.071	15	3.50	3.35%	109.	21	157.74
Hebei	Qian'an	65% Fe	Concentrate	Dry	985	1.0%	6	780	1	.040	14	9.84	1.62%	110.	51	152.35
Liaoning	Anshan	65% Fe	Concentrate	Wet	785	0.0%	6	620	8	805	11	9.42	0.59%	87.4	10	119.58
Shandong	Zibo	65% Fe	Concentrate	Dry	1050	1.4%	6	795	1	.115	15	.59.73 2.05%		113.	34	163.06
	g November 20th Concentrate Cor		lex RMB/WT	This v		ige %	702.47	924.68				/USD = 6.5749 ² L ed: RMB/USD 6.57				
			·		DAO (RMB/W				IRO	ON ORE S	FABO	RNF INDFX	. CFR OIN	GDAO (USD	/DMT)	
						,		1.50					,	027.0 (002	,,	
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550	~~~	~~~	~~~					80 —		W	۷٠/	my				
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						INDEV NA	ONTHIV (NIA DTERIV	AND	VEAR TO	DATE					
November	r 25th, 2020				(inc. 13% VAT)			QUARTERLY	AND					% VAT), USD,	/dry tonno	
Index	Fe Content	July			oer October	MTD	QTD	YTD	Ju			September		MTD	QTD	YTD
IOPI62	62% Fe Fines	844	948	946	892	886	889	795		-	27.65	129.64	123.88	124.72	123.37	106.58
IOPI58	58% Fe Fines	758	838	870	828	796	811	708			13.63	120.14	115.94	112.89	112.46	95.50
IOPI65	65% Fe Fines	948	992	998	982	991	987	901	124		33.70	136.85	136.68	140.06	134.29	121.23
IRO	N ORE SEABO	RNE INDI	EX MONTHL	Y, QUAR	RTERLY AND Y	/EAR-TO-D	ATE AVER	RAGES				FR	EIGHT RA	TES		
Novembei	r 25th, 2020			CFR C	Qingdao, USD/c	dry tonne			Noven	nber 24th 20	20		FREIGHT R	RATES - DRY BUI	K US\$/wet to	nne
Index	Fe Content	July	August	Septemb	per October	MTD	QTD	YTD	Route	•	Desig	nation	Change	Change %	Low ²	High ²
IOSI62	62% Fe Fines	108.23	124.02	126.26	5 122.16	125.39	123.61	105.05	W. Aus	tralia - Qingda	ao (6.96	-0.20	-2.79%	3.57	10.80
IOSI65	65% Fe Fines	121.21	132.95	138.39	133.94	136.97	135.30	118.82	Tubara	o - Qingdao		C3 13.37	-0.11	-0.82%	6.70	22.78
			IRO	ON ORE	PORT LUMP	INDEX MC	NTHLY, O	UARTERLY	AND \	YEAR-TO-	DATE	AVERAGES				
Week Endin 20th, 2020	g November		FOT	Qingdao	(inc. 13% VAT)	, RMB/wet	tonne			CFR	Qingd	ao Equivale	nt (exc. 13	% VAT), USD	dry tonne	1
Index	Fe Content	July	August	Septem	ber October	MTD	QTD	YTD	Ju	uly A	ugust	Septembe	r October	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	875	932	959	919	912	916	881	113	1.35 1	20.08	125.87	121.91	123.05	119.88	113.11
					I	RON ORE I	NDEX PRE	MIUMS/DI	scou	NTS						
November	25th, 2020			PORT S	TOCK INDEX (RI	ИB/WT)		November 2	25th, 20	020			SEABOR	RNE INDEX (US	D/DMT)	
Index		ntent	•	to IOPI62	2 %	Spread to I		Index		Fe Cont	tent	Sprea	d to IOSI62		% Spread to	IOSI62
OPI58 IOPI65		e Fines e Fines		·92 126		-10.26% 14.05%		IOSI65		65% Fe I	Fines		11.60		8.96%	6
	1 03,011			-									-			

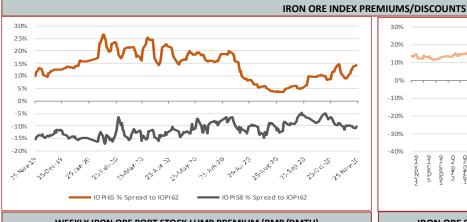




IRON ORE BRAND SPOT PRICE ASSESMENTS										
November 25th, 2020	PORT	STOCK INDEX (F	RMB/WT)	November 25th, 2020	SEABORNE INDEX (USD/DMT)					
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	865	-2	-32	Roy Hill	121.36	0.45	-8.09			
SIMEC Fines	839	-13	-58	SIMEC Fines	112.09	0.45	-17.36			
PB Fines	878	1	-19	PB Fines	126.31	0.45	-3.14			
Newman Fines	899	0	2	Newman Fines	127.29	0.45	-2.16			
MAC Fines	871	-3	-26	MAC Fines	122.47	0.45	-6.98			
Jimblebar Blended Fines	853	-1	-44	Jimblebar Blended Fines	120.01	0.45	-9.44			
Carajas Fines	1022	-1	125	Carajas Fines	140.61	0.45	11.16			
Brazilian SSF	887	-16	-10	Brazilian SSF	118.51	0.45	-10.94			
Brazilian Blend Fines	906	-5	9	Brazilian Blend Fines	127.89	0.45	-1.56			
RTX Fines	869	0	-28	RTX Fines	120.34	0.45	-9.11			
West Pilbara Fines	858	-4	-39	West Pilbara Fines	121.11	0.45	-8.34			

November 25th, 2020	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	748	-7	-57				
FMG Blended Fines	801	1	-4				
Robe River	765	-5	-40				
Western Fines	754	-11	-51				
Atlas Fines	806	1	1				
Yandi	815	-5	10				

				IRON ORE II	NDEX NORMA	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RN	/IB/wet tonne)	Seaborne Index Product Differentials (USD/dry tonne)					
	Apı	plicable range		Value	Change		А	pplicable rar	nge	Value	Change
	High Grade	e Fe 60 - 63%		9.00	1.00		High Grad	de Fe 60 - 63	%	2.25	0.00
	High Grade	e Fe 63 - 64%		27.00	0.00		High Grad	de Fe 63 - 64	%	1.25	0.00
1% Fe	High Grade	e Fe 64 - 65%		27.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	1.25	0.00
	High Grade	e Fe 65 - 65.5%		27.00	0.00		High Grade F		.5%	1.25	0.00
	Low Grade	Fe		3.00	1.00						
	High Fe Gra	ade Al <2.25%		27.00	-3.00		High Fe G	rade Al <2.2	5%	2.25	0.00
1% Alumina	High Fe Grade Al 2.25-4%			2.00	-3.00	10/ 11	High Fe G	rade Al 2.25	-4%	4.25	0.00
	Low Fe Gra	Low Fe Grade Al <2.25%		52.00	-3.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		38.00	4.00						
	High Fe Gra	ade Si <4%		16.00	0.00		High Fe G	rade Si <4%		2.00	0.00
1% Silica	High Fe Gra	de Si 4-6.5%		25.00 5.00		1% Silica	High Fe Grade Si 4 - 6.5%		.5%	5.50	0.00
	Low Fe Gra	de		20.00	5.00						
0.040/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>2.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%<</td><td>P<0.115%</td><td>0.00</td><td>0.00</td></p<0<>	.115%	2.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.00	0.00
0.01%	High Fe Gra	de 0.115% <p<< td=""><td>0.15%</td><td>2.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td>%<p<0.15%< td=""><td>0.25</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	2.00	0.00	Phosphorus	High Fe G	rade 0.115%	% <p<0.15%< td=""><td>0.25</td><td>0.00</td></p<0.15%<>	0.25	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>5.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	5.00	0.00						
			Port St	ock Price Differe	ntials to Qingo	lao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-65.00	0.00	Fangcheng	-10.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	-10.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	0.00	0.00	Jingtang	0.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	-60.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-15.00	0.00

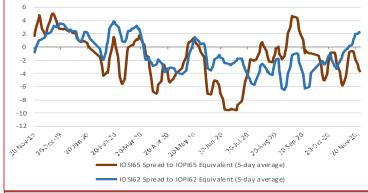




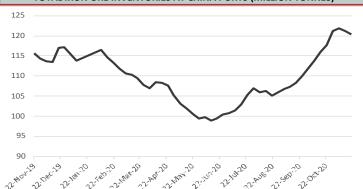
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



	FUTURE TRADING—FRONT MONTH CLOSING PRICE		
950		130	
900	1 NM 1 NA	120	
850		120	
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600	M. A. Mass.	80	
550			
500		70	
2.0ec	Stary		
	—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)		

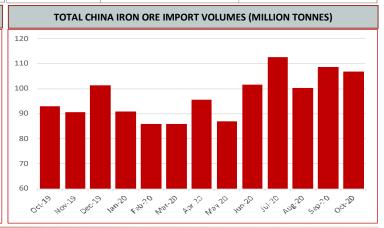
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending November 20th, 2020									
Province	This week	Change %	Low ²	High ²					
Jingtang	14.08	-1.12%	12.26	16.08					
Qingdao	15.25	0.53%	9.41	15.25					
Caofeidian	15.64	2.36%	12.46	16.44					
Tianjin	9.74	0.10%	7.04	9.74					
Rizhao	13.48	-5.20%	9.44	14.22					
Total (35 Ports)	120.24	-0.68%	98.80	121.69					

	D	CE (RMB/WM	IT)	SGX (USD/DMT)				
Closing Date	Nov	25th, 3.00 pm	ı close	Nov 25th, 5.30 pm				
Contract	12101	Change	Change %	Dec '20	Change	Change %		
Closing Price	880.00	4.0	0.46%	125.25	0.52	0.42%		
Vol traded ('000 lots)	65.99	21.69	48.94%	16.69	3.92	30.65%		
Open positions ('000 lots)	55.41	-0.87	-1.54%	180.82	1.26	0.70%		
Day Low	869.0	1.5	0.17%	122.50	-0.97	-0.79%		
Day High	892.0	9.5	1.08%	125.25	0.52	0.42%		

IRON ORE FUTURES CONTRACTS

DRY BULK FREIGHT RATES (USD/MT) 25 20 15 C5 - W. Australia - Qingdao - C3 - Tubarao - Qingdao



STEEL SPOT MARKET PRICES—CHINA Steel Spot Market RMB/tonne 20/11/2020 Product Change Change % ReBar HRB400 ?18mm 4,250.0 120 2.91% Wirerod Q300 ?6.5mm 4,760.0 110 2.37% HRC Q235/SS400 5.5mm*1500*C 4,160.0 2.21% 90 CRC SPCC/ST12 1.0mm*1250*2500 5,200.0 110 2.16% Medium & Heavy Plate Q235B 20mm 4,040.0 0.50% 20 GI ST02Z 1.0mm*1000*C 5,380.0 100 1.89% Colour Coated Plate 7,700.0 0.00% 0

Weekly consumption of rebar Weekly consumption of hot-rolled coil 1,000 mt 6,000 3,500 4,000 1,000 01 02 03 04 05 06 07 08 09 10 11 12

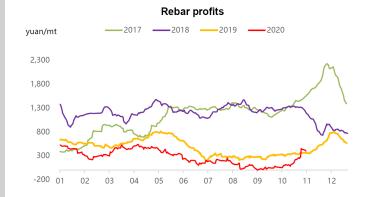
CHINESE STEEL CONSUMPTION

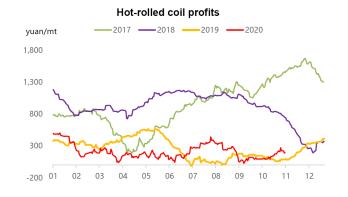
CHINESE STEEL MILL PROFITABILITY										
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)										
Category	Price	Change (WoW)	Note							
MMi (Fe 62%), USD/mt exluding tax	128.95	3.35	Mmi CFR Equivalent index for 1st Feb							
Coke	2,210	50	2nd grade met coke, Tangshan, incl. tax							
Steel Scrap	2,510	-20	steel scrap (6mm) in Zhangjiagang, exl. tax							
Billet Cost	3,616	57	Q234, incl. tax							
Rebar cost - Blast furnace	3,841	57	calculated based on theoretical weight, incl. tax							
Rebar profit - Blast furnace	464	67	based on Shanghai prices, incl. tax							
Hot-rolled coil cost - Blast furnace	3,932	57	based on actual weight, incl. tax							
Hot-rolled coil proft - Blast furnace 228 33 based on Shanghai prices, incl. tax										
Note: 1 Costs in the table are calculated based on t	to down mark at	priese and facout ou	r management, calco financial and depreciations force							

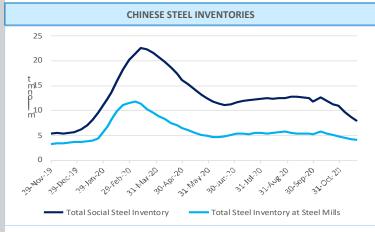
Note: 1 Costs in the table are caluclated based on to days market prices and facout our management, sales, financial and depreciations fees 2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

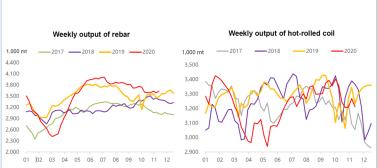


CHINESE STEEL MILL PROFITABILITY









CHINESE STEEL PRODUCTION

Payment Terms

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS Iron Ore Index Specifications (Port and Seaborne) Iron Ore Index Compilation Rationale and Data Exclusions 65% Fe Fines 62% Fe Fines 58% Fe Fines 62.5% Fe Lump MMi iron ore indices are compiled from data provided by companies that are part of the iron ore supply chain and involved in spot market transactions. The Fe % 65.00 62.00 58.00 62.50 indices are calculated using detailed transaction-level data submitted to MMi by 2.25 2.25 1.50 these companies. This data is normalised to the appropriate specifications and Alumina % 1.40 screened to remove outliers before volume-weighted average prices are Silica% 4.00 3.50 1.50 5.50 calculated from the remaining core set of data. Phosphorus % 0.06 0.09 0.05 0.08 For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com Sulphur % 0.01 0.02 0.02 0.02 Moisture % 8.00 8.00 9.00 4.00 Data Exclusions* Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15% 65% Sizing 0 maximum of 40% below 150 micron Size above 31.15mm max 25% Seaborne index O Qingdao Port (FOT and CFR respectively) FOT Qingdao Port **Pricing Point** Lump Index 62.5 Timing (Seaborne) Loading within 4 weeks, Delivery within 8 weeks Delivery within 2 weeks * Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

L/C at sight or CAD

L/C at sight

The compilation method for price index generally refers to the compilation method of CPI price index and other price indices, breakdown the price data and calculate the average value according to a certain method, taking the vertical axis as the regional composite index (average of different grade index) and the horizontal axis as the grade composite index (average of different regional index), a total composite index for domestic ore can be output ultimately. The process system is also adopted in the calculation i.e. each sub-index can be obtained as well.

		AVEF	RAGE IRON	ORE SPECIF	ICATIONS A	APPLIED FOR BRAND PRICE ASSESSMENTS						
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
November 25th, 2020	November 25th, 2020 Specifications applied for 62% brand assessments			brand asses	ssments							
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture	
Roy Hill	60.94%	2.40%	4.36%	0.056%	9.34%	Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%	
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%	
PB Fines	61.64%	2.32%	3.90%	0.100%	9.59%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%	
Newman Fines	62.40%	2.34%	4.07%	0.092%	7.81%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%	
MAC Fines	60.49%	2.39%	4.58%	0.079%	7.78%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%	
Jimblebar Blended Fines	60.85%	2.98%	4.49%	0.112%	7.47%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%	
Carajas Fines	65.04%	1.21%	1.85%	0.066%	8.12%	Carajas Fines	65.10%	1.50%	1.70%	0.080%	8.50%	
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%	
Brazilian Blend Fines	62.77%	1.38%	4.79%	0.086%	8.19%	Brazilian Blend Fines	63.00%	1.50%	5.00%	0.070%	7.00%	
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	
November 25th, 2020	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.49%	3.16%	6.24%	0.062%	9.35%							
FMG Blended Fines	58.20%	2.49%	5.63%	0.055%	8.23%							
Robe River	56.43%	3.18%	5.75%	0.041%	8.42%							
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%							
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%							
Yandi	56.99%	1.59%	6.38%	0.041%	9.41%							
						i .						

	BLOOMBERG TICKERS										
	PORT STO	CK INDICES		SEABORNE INDICES							
	FOT Qingdao (RMB/wet tonne) CFR Qingdao Equivalent (USD/dry tonne)			CFR Qingdao (USD/DMT)							
IOPI62	IRCNQ001	IRCNQ004	IOSI62	IRCN0034							
IOPI58	IRCNQ002	IRCNQ005	IOSI65	IRCN0035							
IOPI65	IRCNQ003	IRCNQ006									
IOPLI62	IRCN0036	IRCN0037									

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