

## MMi Dashboard

#### **Iron Ore Price Indices**





689

**-7 -1.01%** 

December 16th, 2019

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



773

-5 -0.64%

December 16th, 2019

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



597

-0.17%

December 16th, 2019

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



94.15

-0.15 -0.16%

December 16th, 2019

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



105.20

-0.45 -0.43%

December 16th, 2019

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



830

18 2.22%

Week Ending December 13th, 2019

#### **Exchange Traded Contracts**

DCE Iron Ore 62% Fines I2005 (May) RMB/t



645.50

-8.00 -1.22%

December 16th, 2019

(3pm close)

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



92.75

-0.10 -0.11%

December 16th, 2019 (5.30 pm Print)

SHFE Rebar RB2005 (May) RMB/t



3480

**-43.00 -1.22**%

December 16th, 2019

(3pm close)

#### **Freight Rates**

C3, Tubarao - Qingdao USD/t



18.96

-0.35 -1.81%

December 13th, 2019

C5, W. Australia - Qingdao USD/t



8.36

-0.31 -3.61%

December 13th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t

3910

30 -0.76%

Week Ending December 13th, 2019

#### **Inventory Levels**

Iron Ore Inventory at Chinese Ports (35) million tonnes



113.33

-0.17 -0.15%

Week Ending December 13th, 2019

Steel Inventory in China

million tonnes



8.69

-0.06 -0.65%

Week Ending December 13th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

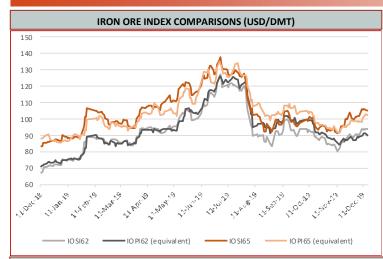


3890

120 3.18%

Week Ending December 13th, 2019

MMi D	aily Iron Oi	re Inde	x Report											Decen	nber 16	th, 2019
						IRON OR	E PORT S	TOCK INDEX	( (IOPI)							
December	· 16th, 2019		FOT	Qingdao (i	nc. 13% VAT), I	RMB/wet	tonne			CFR Qin	gdao Eq	uivale	nt (exc. 13%	VAT), USD/	dry tonne	1
Index	Fe Content	Price	Change	Change S	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Chang	ge Cha	ınge %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	689	-7	-1.0%	684	720	560	928	90.94	-0.65	j -(	).7%	89.82	95.91	72.34	126.12
IOPI58	58% Fe Fines	597	-1	-0.2%	588	630	387	823	79.14	0.13	0	.2%	77.44	84.20	48.82	112.44
IOPI65	65% Fe Fines	773	-5	-0.6%	760	786	654	992	102.50	-0.33	3 -(	0.3%	100.15	105.18	85.47	135.34
		IR	ON ORE SE	ABORNE	INDEX (IOSI)						I	MARK	ЕТ СОММЕ	NTARY		
December	16th, 2019			CFR Qi	ngdao, USD/dr	y tonne							ock and DCE iron or trading was restrict			
Index	Fe Content	Price	Change	Change 5	6 MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	High <sup>2</sup> due to the alert for heavy pollution. Transactions between traders were active and as recent production limits in Tangshan, Anyang and Shanxi provinces turned out to be stricter than expected, some mills preferred to stand on the side-line for the							
IOSI62	62% Fe Fines	94.15	-0.15	-0.16%	92.45	94.05	70.95	127.50	demands before the Chinese Lunar New Year holiday							
IOSI65	65% Fe Fines	105.20	-0.45	-0.43%	104.05	105.45	85.50	137.95								
	ng December		FOT	Dingdao (ii	nc. 16% VAT), I			JMP INDEX	ı	CED Oin	adoo Fa		nt (exc. 16%	VAT) LIED/	ductono	3
13th, 2019 Index	Fe Content	Price	W-o-W	Change 9		YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-oV		uivaier inge %		YTD	Low 2	High <sup>2</sup>
IOPLI62	62.5% Fe Lump	830	18	2.2%	821	873	743	1051	102.42	2.35		.35%	101.24	110.24	93.24	133.81
101 2102		030			OMESTIC CON									110.24	33.24	133.01
Week End	ing December 1	3th 2010	ino	JALE DI	J2116 601				J.T.EITIS A		0311			/oval	av) 3	
Province	Region	Product	<u> </u>	Basis	This week	RMB/to Change	nne (exclu	Low <sup>2</sup>	High <sup>2</sup>	-	his wee		USD/tonne Change %	(excluding t		High <sup>2</sup>
Hebei	Hanxing		Concentrate		819	0.5%		651	1032	'	116.47	ĸ	0.54%	94.5		150.03
Hebei	Qian'an		Concentrate	'	840	1.2%		705	960		119.45		1.25%	102.		139.35
Liaoning	Anshan		Concentrate	'	650	0.0%		535	745		92.43		0.05%	77.3		104.66
Shandong	Zibo	65% Fe	Concentrate	Dry	810	0.0%	á	740	1040		115.19		0.05%	107.	44	151.33
Week Endin	g December 13th	, 2019		This w	eek Chang	e %	Low <sup>2</sup>	High <sup>2</sup>	High <sup>2</sup> 1 Exchange rate applied: RMB/USD = 6.9915 <sup>2</sup> Last 12 months							
China Mines	Concentrate Con	nposite Ind	ex RMB/WT	715.4	17 0.29	%	609.04	859.50	<sup>3</sup> Weekly exc	hange rate a	pplied: RMI	B/USD 7.0	320			
	IRON (	ORE PORT	Γ INDEX, FO	T QINGD	AO (RMB/W	Γ)			IRON O	RE SEAI	BORNE	INDEX	, CFR QING	DAO (USD	/DMT)	
1050 —								145								
950								135 —— 125 ——					~~~	1		
850 — 750 —	M		$\sim$	سمميم	( Lover	7	~~~	115 —— 105 ——			~~	~~~	~~/~~	1 _		
650	~~~	~~~	~~~		1	2		95 —	~	~~	····	يممه	لہ	( )	Party.	
550								85 <b>7</b> 5	<i>ا</i> لسر	~~~	•			•		<b>√</b>
450 — 350 —	~~~~							65 — 55 —								
250 —		0 0			0 0	0 0		45	.9 .9	.0	~3	9	.9 .9	.9 .9	.9	, O1 , 40)
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	, ,	—— IO P		O PI 58 -	— IO PI 65							IO SI62				
			ID	ON ORE I	PORT STOCK I	NIDEV MC	ONTHIV (	NIADTEDIV	AND VEAD	2 TO DA	TE AVE	DAGE	c			
December	· 16th, 2019				inc. 13% VAT),			QUANTENLT	AND TEAM				ent (exc. 13%	(VAT) USD	/dry tonno	
Index	Fe Content	August		• • •	November	MTD	QTD	YTD	August				November	MTD	QTD	YTD
IOPI62	62% Fe Fines	759	758	721	665	684	689	720	123.29	100.1		4.29	87.30	89.82	90.37	95.91
IOPI58	58% Fe Fines	691	674	636	567	588	596	630	110.47	91.8	6 8	3.57	74.67	77.44	78.48	84.20
IOPI65	65% Fe Fines	823	803	758	723	760	744	786	129.53	108.9	2 9	9.32	95.29	100.15	97.81	105.18
IRO	N ORE SEABO	RNE INDE	X MONTHL	Y, QUAR	ERLY AND YE	AR-TO-D	ATE AVER	RAGES				FI	REIGHT RAT	res		
December	16th, 2019			CFR Qi	ngdao, USD/dr	y tonne			December 13	3th, 2019			FREIGHT RA	ATES - DRY BUI	.K US\$/wet to	onne
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	Route		Designation		Change	Change %	Low <sup>2</sup>	High <sup>2</sup>
IOSI62	62% Fe Fines	92.61	93.76	90.81	85.83	92.45	89.21	94.05	W. Australia - 0	-	C5	8.36	-0.31	-3.61%	4.39	11.42
IOSI65	65% Fe Fines	101.34	99.42	97.45	96.49	104.05	98.42	105.45	Tubarao - Qing		С3	18.96		-1.81%	11.61	29.10
Week Fred	na Dage-mb	ı	IR	ON ORE I	PORT LUMP II	NDEX MO	NTHLY, O	UARTERLY	AND YEAR	-TO-DA	TE AVE	RAGES				
Week Endin	ig December				nc. 16% VAT),	RMB/wet	tonne			CFR Qir	ngdao Ed	quivale	nt (exc. 16%	VAT), USD	dry tonne	2 1
Index	Fe Content	August	•		r November	MTD	QTD	YTD	May	June		July	November		QTD	YTD
IOPLI62	62.5% Fe Lump	870	803	829	794	821	810	873	132.99	108.8	30 9	8.44	97.89	101.24	99.72	110.24
					IR	ON ORE I	NDEX PRE	MIUMS/DI	SCOUNTS							
December					OCK INDEX (RMI	-	nnice.	December 1		•				NE INDEX (US		100/22
Index IOPI58	<b>Fe Co</b> 58% Fe	ntent e Fines	-	to IOPI62 -92	% 5	Spread to IC -13.35%		Index	Fe	Content		Spre	ad to IOSI62		% Spread to	o IOSI62
IOPI65	65% Fe			84		12.19%		IOSI65	65%	% Fe Fines	5		11.05		11.74	%





IRON ORE BRAND SPOT PRICE ASSESMENTS											
December 16th, 2019	ecember 16th, 2019 PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)						
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	654	-7	-35	Roy Hill	92.15	-0.14	-2.00				
SIMEC Fines	629	-7	-60	SIMEC Fines	90.40	-0.14	-3.75				
PB Fines	669	-6	-20	PB Fines	93.75	-0.06	-0.40				
Newman Fines	692	-7	3	Newman Fines	94.80	-0.16	0.65				
MAC Fines	665	-6	-24	MAC Fines	92.40	-0.04	-1.75				
Jimblebar Blended Fines	602	-4	-87	Jimblebar Blended Fines	84.57	0.21	-9.58				
Carajas Fines	783	-4	94	Carajas Fines	104.07	-0.92	9.92				
Brazilian SSF	686	-3	-3	Brazilian SSF	94.15	-0.46	0.00				
Brazilian Blend Fines	708	-5	19	Brazilian Blend Fines	95.02	-0.34	0.87				
RTX Fines	619	-5	-70	RTX Fines	87.35	0.06	-6.80				
West Pilbara Fines	656	-6	-33	West Pilbara Fines	91.70	-0.14	-2.45				

December 16th, 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	568	-1	-29					
FMG Blended Fines	606	-1	9					
Robe River	576	-1	-21					
Western Fines	559	-1	-38					
Atlas Fines	548	-1	-49					
Yandi	579	-3	-18					

Beilun

Dalian

Caofeidian

5.00

-10.00

-50.00

0.00

0.00

0.00

Jiangyin

Jingtang

Lanqiao

-15.00

-10.00

0.00

	IRON ORE INDEX NORMALISATION DIFFERENTIALS											
Port	Stock Index	Product Differ	entials (R	MB/wet tonne	Seaborne Index Product Differentials (USD/dry tonne)							
	Арі	plicable range		Value	Change		A	pplicable ran	ge	Value	Change	
	High Grade	e Fe 60 - 63%		5.00	0.00		High Grad	le Fe 60 - 639	%	1.00	0.00	
	High Grade	e Fe 63 - 64%		9.00 0.00			High Grad	le Fe 63 - 649	%	1.25	0.00	
1% Fe	High Grade	High Grade Fe 64 - 65%		9.00	0.00	1% Fe	High Grad	le Fe 64 - 659	%	1.25	0.00	
	High Grade Fe 65 - 65.5%			9.00	0.00		High Grad	le Fe 65 - 65.	.5%	1.25	0.00	
	Low Grade Fe			10.00	0.00							
	High Fe Gra	ade Al <2.25%		40.00	3.00		High Fe G	rade Al <2.25	5%	1.50	-0.25	
1% Alumina	High Fe Gra	High Fe Grade Al 2.25-4%		29.00	-3.00	1% Alumina	High Fe G	rade Al 2.25	-4%	0.50	-0.25	
1/0 Alumina	Low Fe Grade Al <2.25%			19.00	-3.00	1/0 Alullilla						
	Low Fe Gra	Low Fe Grade Al 2.25-4%		0.00	0.00							
	High Fe Gra	High Fe Grade Si <4%			0.00		High Fe G	rade Si <4%		2.25	-0.25	
1% Silica	High Fe Gra	ade Si 4-6.5%		27.00	0.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	0.75	0.00	
	Low Fe Gra	de		23.00	0.00							
0.01%	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>8.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%&lt;</td><td>P&lt;0.115%</td><td>0.00</td><td>0.00</td></p<0<>	.115%	8.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.00	0.00	
Phosphorus	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>5.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>2.50</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	5.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>2.50</td><td>0.00</td></p<0.15%<>	2.50	0.00	
riiospiiorus	Low Fe Gra	Low Fe Grade 0.09 <p<0.1%< td=""><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1%<>			0.00							
			Port S	tock Price Differe	ntials to Qingd	lao Port for PB Fine	s (RMB/wet t	onne)				
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change	
Bayuquan	-50.00	0.00	Fangchen	ıg <b>-5.00</b>	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00	

Lianyungang

Majishan

Nantong

0.00

0.00

-15.00

0.00

0.00

0.00

Rizhao

Shekou

Tianjin

0.00

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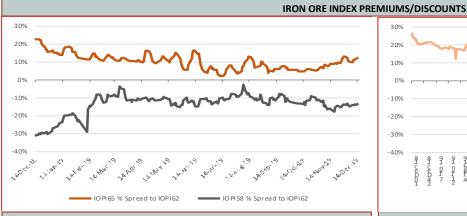
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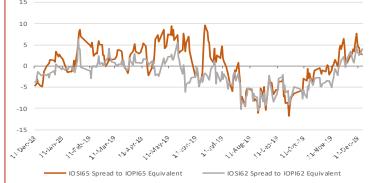




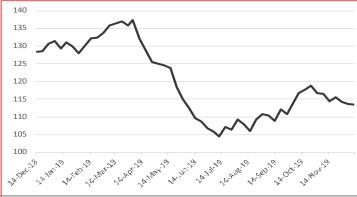
#### WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)







# TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



	FUTURE TRADING—FRONT MONTH CLOSING PRICE		
l	1000 ——————————————————————————————————	130	
	900	120	
	0800	110	
	9700 A MAN A A A A A A A A A A A A A A A A A	100	M
	BY A MAN AND AND AND AND AND AND AND AND AND A	90	5
	R <sub>600</sub>	80	U
	500	70	
	400	60	
	Thereing William Internal Production of the stands of the		
	—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)		

### IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending December 13th, 2019									
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>					
Jingtang	13.63	-5.35%	10.80	17.00					
Qingdao	13.37	-2.12%	12.38	19.01					
Caofeidian	13.55	0.59%	13.47	19.30					
Tianjin	7.58	0.53%	6.37	9.70					
Rizhao	12.62	-3.00%	11.41	17.10					
Total (35 Ports)	113.33	-0.15%	104.40	137.30					

		D	CE (RMB/WM	IT)	SGX (USD/DMT)					
2	Closing Date	De	c 16th, 3pm c	lose	Dec 16th, 5.30 pm					
)	Contract	12005	5 Change Chan		Jan'20	Change	Change %			
	Closing Price	645.50	-8.0	-1.22%	92.75	-0.10	-0.11%			
)	Vol traded ('000 lots)	280.28	90.0	47.32%	18.94	3.12	19.71%			
	Open positions ('000 lots)	136.90	0.2	0.14%	126.74	-1.89	-1.47%			
)	Day Low	640.5	-2.5	-0.39%	91.69	-0.38	-0.41%			
0	Day High	669.0	10.5	1.59%	94.58	1.21	1.30%			

**IRON ORE FUTURES CONTRACTS** 

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#### STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne									
Product	13/12/2019	Change	Change %						
ReBar HRB400 ?18mm	3,910.0	-30	-0.76%						
Wirerod Q300 ?6.5mm	4,070.0	-80	-1.93%						
HRC Q235/SS400 5.5mm*1500*C	3,890.0	120	3.18%						
CRC SPCC/ST12 1.0mm*1250*2500	4,400.0	90	2.09%						
Medium & Heavy Plate Q235B 20mm	3,820.0	50	1.33%						
GI ST02Z 1.0mm*1000*C	4,520.0	30	0.67%						
Colour Coated Plate	6,800.0	50	0.74%						



CHINESE STEEL WILL 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	93.80	3.80	Mmi CFR Equivalent index for 1st Feb						
Coke	1,910	50	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,290	-20	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,045	66	Q234, incl. tax						
Rebar cost - Blast furnace	3,271	67	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	619	-77	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,362	67	based on actual w eight, incl. tax						
Hot-rolled coil proft - Blast furnace	508	33	based on Shanghai prices, incl. tax						
The state of the s			, and the second						

CHINICSE STEEL MILL DECEITABILITY

Note: 1 Costs in the table are caluclated based on todays 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**

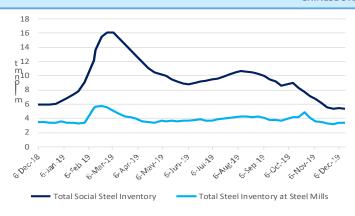
#### Rebar profits

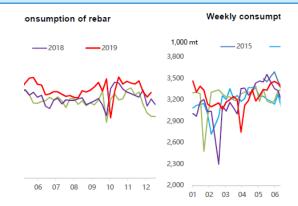


#### Hot-rolled coil profits



#### CHINESE STEEL INVENTORIES





#### 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 62.5% Fe Lump 58% Fe Fines 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 Alumina % 1.40 2.25 2.25 1.50 these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are Silica% 1.50 4.00 5.50 3.50 calculated from the remaining core set of data. 0.08 Phosphorus % 0.06 0.09 0.05 For more details on MMi's iron ore methodology please download the guide Sulphur % 0.01 0.02 0.02 0.02 published on our website at: www.mmiprices.com 4.00 Moisture % 8.00 8.00 9.00 Data Exclusions Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15% Sizing Ω maximum of 40% below 150 micron Size above 31.15mm max 25% Seaborne index O **Pricing Point** Qingdao Port (FOT and CFR respectively) **FOT Oingdao Port** 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 Payment Terms L/C at sight L/C at sight or CAD

#### IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

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.

	AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS											
	PORT	STOCK BRAN	NDS			SEABORNE BRANDS						
December 16th, 2019	Specifi	cations appli	ed for 62%	brand asses	sments		Specifi	Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture	
Roy Hill	60.70%	2.25%	4.70%	0.054%	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	61.57%	2.36%	3.71%	0.099%	9.50%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.47%	2.21%	4.10%	0.090%	7.72%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.78%	2.30%	4.70%	0.080%	7.70%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	60.50%	3.03%	4.65%	0.116%	7.89%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%	
Carajas Fines	65.38%	1.27%	1.45%	0.082%	7.98%	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	62.99%	1.45%	4.74%	0.073%	7.69%	Brazilian Blend Fines	62.50%	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%	
December 16th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.72%	3.04%	6.17%	0.056%	9.07%							
FMG Blended Fines	58.26%	2.73%	5.62%	0.062%	7.55%							
Robe River	56.31%	3.17%	5.64%	0.041%	9.10%							
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%							
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%							
Yandi	57.10%	1.60%	6.40%	0.039%	9.02%							

	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	IOS165	IRCN0035							
IOPI65	IRCNQ003	IRCNQ006									
IOPLI62	IRCN0036	IRCN0037									

#### **CONTACT US**

MMI Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: <a href="mailto:jarek@mmiprices.com">jarek@mmiprices.com</a>
SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: <a href="mailto:service.en@smm.cn">service.en@smm.cn</a>
SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: <a href="mailto:service.en@smm.cn">service.en@smm.cn</a>

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