

MMi Dashboard

Iron Ore Price Indices

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

1044

16 1.56%

December 16th, 2020

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



159.85

0.80 0.50%

December 16th, 2020

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



1112

13 1.18%

December 16th, 2020

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



170.30

0.50 0.29%

December 16th, 2020

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



889

2 0.23%

December 16th, 2020

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



1033

72 7.49%

Week Ending December 11th, 2020

Exchange Traded Contracts

DCE Iron Ore 62% Fines I2105 (May) RMB/t (3pm close)



1008.00

14.00 1.41%

December 16th, 2020

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines Jan'21 USD/dmt



154.96

1.71 1.12%

December 16th, 2020 (5.30 pm Print)

SHFE Rebar RB2105 (May) RMB/t



1.84% 75.00

December 16th, 2020

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



14.94

1.28 9.33%

December 15th 2020

C5, W. Australia - Qingdao USD/t



6.85

-0.06 -0.85%

December 15th 2020

Steel Price

Steel Rebar (China Domestic) RMB/t



4200

190 4.74%

Week Ending December 11th, 2020

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



116.28

-1.75 -1.48%

Week Ending December 11th, 2020

Steel Inventory in China

million tonnes



10.65

-3.37%

Week Ending December 4th, 2020

Steel Price

Steel HRC (China Domestic) RMB/t

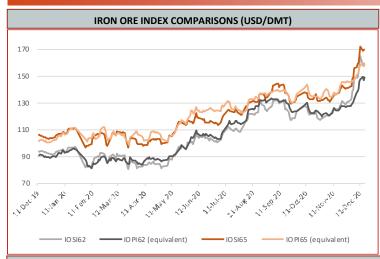


4530

240 5.59%

Week Ending December 11th, 2020

MMi D	aily Iron C	re Inde	x Report											Decen	nber 16	th, 2020
						IRON OR	E PORT S	TOCK INDEX	((IOPI)							
December	16th, 2020		FOT (Qingdao (i	nc. 13% VAT),	RMB/wet	tonne			CFR Q	ingdao I	quivale	nt (exc. 13%	VAT), USD,	dry tonne	1
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low ²	High ²	Price	Cha	nge Cl	nange %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	1044	16	1.6%	981	806	619	1044	149.54	2.5	54	1.7%	139.98	108.58	81.37	149.54
IOPI58	58% Fe Fines	889	2	0.2%	857	717	531	892	128.12	0.4	16	0.4%	123.20	97.21	70.02	128.25
IOPI65	65% Fe Fines	1112	13	1.2%	1068	911	759	1116	159.55	2.1	1	1.3%	152.83	123.19	99.04	160.12
			RON ORE SE	ABORNE	INDEX (IOSI)							MARK	ЕТ СОММЕ	NTARY		
December	16th, 2020			CFR Qi	ngdao, USD/dr	y tonne			recently annou	nced the averag	ge daily output	of pig iron fror	Shandong and Tangsha in the key steel enterpr	ises in the first ten d	ays, with YoY growth	of 10.94%,
Index	Fe Content	Price	Change	Change 5	% MTD	YTD	Low ²	High ²	meanwhile, acc	ording to SMM	, though profit	s margins for re	e demand remains stro ebar declined, marings	for HRC hovered aro	und 250yuan/mt, ba	ised on an iron ore
IOSI62	62% Fe Fines	159.85	0.80	0.50%	151.19	107.67	80.65	165.00	increased. One	mill from North	China states,	as they have ne	ering cost performance ew blast furnace to be p well as the uncertain of	out into operation in		
IOSI65	65% Fe Fines	170.30	0.50	0.29%	159.92	121.15	97.05	172.35	nom por catoes	· market given t	ne nigher seas	ome prices as	wen as the direction of	Jilipping dutc.		
Wook Endir	ng December							JMP INDEX	(IOPLI)							
11th, 2020	ig December		FOT	Qingdao (i	nc. 13% VAT),	RMB/wet	tonne			CFR Qi	ingdao E	quivale	nt (exc. 13%	VAT), USD/	dry tonne	3
Index	Fe Content	Price	W-o-W	Change S	% MTD	YTD	Low ²	High ²	Price	W-c	oW Cl	nange %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	1033	72	7.5%	997	888	804	1033	141.71	10.	77	8.23%	136.33	114.38	101.03	141.71
				N ORE D	OMESTIC CON				SMENTS	AND CO	MPOSI					
	ing December			-			nne (exclu			2			USD/tonne (
Province	Region		-	Basis	This week	Change		Low ²	High		This we		Change %	Low		High ²
Hebei	Hanxin	-	Concentrate	'	1094	5.2%		763	1094		167.3		5.69%	109.		167.34
Hebei	Qian'aı		Concentrate	'	1059	2.6%		780	1059	'	161.9		3.10%	110.		161.99
Liaoning	Anshar Zibo		Concentrate Concentrate		830 1130	1.8% 3.7%		620 810	830 1130	,	126.9 172.8		2.32% 4.16%	87.4 115.:		126.96 172.85
Shandong Week Endin	g December 11		Concentrate	This w			Low ²	High ²	_	rate applied			²Last 12 month		13	1/2.03
	China Mines Concentrate Composite Index RMB/WT 923.51 0.00% 702.47 947.97 3 Weekly exchange rate applied: RMB/USD 6.5683															
	IRON	ORE POR	T INDEX, FO	T QINGD	AO (RMB/W	Γ)			IRON	ORE SE	ABORN	E INDEX	, CFR QING	DAO (USD	/DMT)	
1150 -								190								
1050							5	170 —								
950 -			~	~~~	Married Married		<i>/- </i>	150								
850 -		۸۸	~ ~	<u></u>	m	- Chr	7	130						~~~	van	
750		W V		~~~		~		110 —	~			~	~~~~	. ۷ سر	كهالب	
650	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\sim						90	~\\	~~~	~~	~~	~~			
550 -			,					70 —	~~	· v	سب					
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(a),	Vie 10 Vec. 14	We Payer	18 Mr. 1852	1,000 16	V. V. P. Jac.	, Par	'a,	\$1 \sqrt{2}	ζ,	/a 1/2	, %	1/2	1 19	~°°		10
		101	PI 62 I	O PI 58 -	IO PI 65							– IO SI62	— IOSI	65		
			IR	ON ORE I	PORT STOCK	NDEX MO	ONTHLY, C	QUARTERLY	AND YEA	AR-TO-D	ATE AV	ERAGE	s			
December	16th, 2020				inc. 13% VAT),								ent (exc. 13%	VAT), USD,	-	
Index	Fe Content		September			MTD	QTD	YTD	-	•			November	MTD	QTD	YTD
IOPI62	62% Fe Fine		946	892	888 799	981	912	806	127.65			123.88	125.18	139.98	125.22	108.58
IOPI58	58% Fe Fine		870 998	828 982	996	857 1068	823 1009	717 911	113.63			115.94 136.68	113.43 140.93	123.20 152.83	113.69 136.54	97.21 123.19
	<u> </u>		EX MONTHL	Y. QUAR	TERLY AND Y	AR-TO-D		RAGES					REIGHT RAT			
	16th, 2020			<u> </u>	ngdao, USD/dr				December	15th 2020				TES - DRY BUI	K US\$/wet to	nne
Index	Fe Content	August	September	Octobe	November	MTD	QTD	YTD	Route		Designation	on	Change	Change %	Low ²	High ²
IOSI62	62% Fe Fine	124.02	126.26	122.16	126.25	151.19	130.05	107.67	W. Australia	- Qingdao	C5	6.85	-0.06	-0.85%	3.57	10.80
IOSI65	65% Fe Fine	132.95	138.39	133.94	137.65	159.92	141.02	121.15	Tubarao - Qi	ingdao	С3	14.94	1.28	9.33%	6.70	22.78
			IR	ON ORE I	PORT LUMP II	NDEX MO	NTHLY, Q	UARTERLY	AND YEA	R-TO-D	ATE AV	ERAGES	5			
Week Endin 11th, 2020	g December		FOT	Qingdao (inc. 13% VAT),	RMB/wet	tonne			CFR Q	ingdao I	Equivale	nt (exc. 13%	VAT), USD	dry tonne	1
Index	Fe Content	August	Septembe	r Octobe	r November	MTD	QTD	YTD	August	Septe	mber (October	November	MTD	QTD	YTD
IOPLI62	62.5% Fe Lum	932	959	919	919	997	934	888	120.08	125	.87	121.91	124.21	136.33	121.65	114.38
					IR	ON ORE I	NDEX PRE	MIUMS/DI	SCOUNTS	S						
December :	16th, 2020			PORT ST	OCK INDEX (RM	B/WT)		December 1	16th, 2020 SEABORNE INDEX (USD/DMT)							
Index		Content	•	to IOPI62	%:	Spread to K		Index	'	Fe Conter	nt	Spre	ad to IOSI62		% Spread to	IOSI62
IOPI58		Fe Fines Fe Fines		155 68		-14.85% 6.51%	•	IOSI65	6	5% Fe Fin	es		10.45		6.549	%
						_										

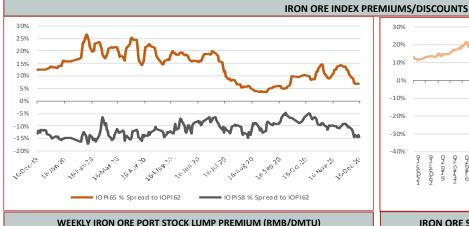




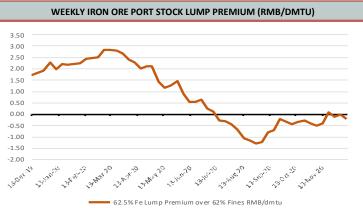
IRON ORE BRAND SPOT PRICE ASSESMENTS												
December 16th, 2020	PORT S	TOCK INDEX (R	MB/WT)	December 16th, 2020	SEABORNE INDEX (USD/DMT)							
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62					
Roy Hill	1010	18	-34	Roy Hill	151.13	0.80	-8.72					
SIMEC Fines	986	28	-58	SIMEC Fines	141.54	0.80	-18.31					
PB Fines	1024	17	-20	PB Fines	156.36	0.80	-3.49					
Newman Fines	1046	15	2	Newman Fines	157.67	0.80	-2.18					
MAC Fines	1019	20	-25	MAC Fines	152.23	0.80	-7.62					
Jimblebar Blended Fines	1000	18	-44	Jimblebar Blended Fines	146.74	0.68	-13.11					
Carajas Fines	1111	13	67	Carajas Fines	166.84	0.80	6.99					
Brazilian SSF	1003	24	-41	Brazilian SSF	147.66	0.80	-12.19					
Brazilian Blend Fines	1031	17	-13	Brazilian Blend Fines	157.99	0.80	-1.86					
RTX Fines	1017	17	-27	RTX Fines	146.06	0.67	-13.79					
West Pilbara Fines	1006	21	-38	West Pilbara Fines	150.61	0.80	-9.24					

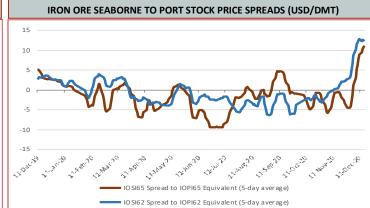
December 16th, 2020	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI58
SSF	856	-9	-33
FMG Blended Fines	891	1	2
Robe River	867	-8	-22
Western Fines	873	-8	-16
Atlas Fines	901	3	12
Yandi	908	-2	19

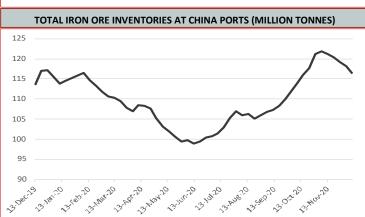
				IRON ORE I	INDEX NORM	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (F	RMB/wet tonne	e)	Se	aborne Inde	x Product Di	fferentials (USD/dry tonne	e)
	App	olicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade Fe 60 - 63%			6.00	-2.00		High Gra	de Fe 60 - 639	%	2.70	0.00
	High Grade	Fe 63 - 64%		19.00	0.00		High Gra	ligh Grade Fe 63 - 64%		0.50	0.00
1% Fe	High Grade	High Grade Fe 64 - 65%			0.00	1% Fe	High Gra	de Fe 64 - 659	%	0.50	0.00
	High Grade	High Grade Fe 65 - 65.5%			0.00		High Gra	High Grade Fe 65 - 65.5%		0.50	0.00
	Low Grade	Low Grade Fe		2.00	2.00						
	High Fe Grade Al <2.25%			8.00	0.00		High Fe G	irade Al <2.25	5%	1.25	0.00
1% Alumina	High Fe Grade Al 2.25-4%		.	9.00	3.00	10/ 11	High Fe G	irade Al 2.25-	4%	5.25	0.00
	Low Fe Grad	de Al <2.25%		50.00	2.00	1% Alumina					
	Low Fe Grad	de Al 2.25-4%		23.00	6.00						
	High Fe Gra	Grade Si <4%		7.00 0.00			High Fe G	irade Si <4%		1.00	0.00
1% Silica	High Fe Grade Si 4-6.5%			29.00 -3.00		1% Silica	High Fe G	High Fe Grade Si 4 - 6.5%		5.50	0.00
	Low Fe Grad	de		8.00	3.00						
0.040/	High Fe Gra	ide 0.09% <p<0< td=""><td>.115%</td><td>1.00</td><td colspan="2">0.00 0.01%</td><td>High Fe G</td><td colspan="3">High Fe Grade 0.09%<p<0.115%< td=""><td>0.00</td></p<0.115%<></td></p<0<>	.115%	1.00	0.00 0.01%		High Fe G	High Fe Grade 0.09% <p<0.115%< td=""><td>0.00</td></p<0.115%<>			0.00
0.01%	High Fe Gra	ide 0.115% <p<< td=""><td>0.15%</td><td>1.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td colspan="2">High Fe Grade 0.115%<p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	1.00	0.00	Phosphorus	High Fe G	High Fe Grade 0.115% <p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<>		1.00	0.00
Phosphorus	Low Fe Grad	de 0.09 <p<0.19< td=""><td>%</td><td>2.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	2.00	0.00						
			Port :	Stock Price Differ	entials to Qingo	dao Port for PB Fine	s (RMB/wet 1	tonne)			
Port	Value	Change	Port	t Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	0.00	Fangcher	ng - 5.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	-5.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-5.00	0.00	Jingtang	-5.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	-35.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-10.00	0.00









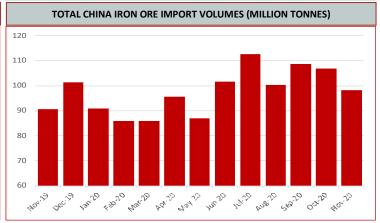




II	IRON ORE PORT INVENTORIES (MILLION TONNES)											
Week Ending December 11th, 2020												
Province	This week	Change %	Low ²	High ²								
Jingtang	14.43	0.14%	12.26	16.08								
Qingdao	14.55	-3.00%	9.41	15.30								
Caofeidian	13.64	-4.01%	12.46	16.44								
Tianjin	9.78	-2.98%	7.14	10.08								
Rizhao	12.68	-4.73%	9.44	14.22								
Total (35 Ports)	116.28	-1.48%	98.80	121.69								

	MON ONE POTONES CONTINUES												
		D	CE (RMB/WN	IT)	SGX (USD/DMT)								
2	Closing Date	Dec 1	.6th, 3.00 pm	close	Dec 16th, 5.30 pm								
3	Contract	12105	Change	Change %	Jan '21	Change	Change %						
)	Closing Price	1008.00	14.0	1.41%	154.96	1.71	1.12%						
	Vol traded ('000 lots)	60.86	3.16	5.49%	13.64	-13.96	-50.58%						
	Open positions ('000 lots)	52.21	0.59	1.14%	181.26	-0.70	-0.38%						
	Day Low	985.5	27.5	2.87%	152.90	3.82	2.56%						
9	Day High	1017.0	15.5	1.55%	155.16	1.76	1.15%						

DRY BULK FREIGHT RATES (USD/MT)									
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20 h									
15									
10									
5									
ateria dina di segia dina di di									
—— C5 - W. Australia - Qingdao —— C3 - Tubarao - Qingdao									



CHINESE STEEL CONSUMPTION





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	158.80	18.55	Mmi CFR Equivalent index for 1st Feb						
Coke	2,260	50	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,580	20	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,964	220	Q234, incl. tax						
Rebar cost - Blast furnace	4,192	222	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	93	-26	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	4,280	219	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	250	11	based on Shanghai prices, incl. tax						
Rebar profit - Blast furnace Hot-rolled coil cost - Blast furnace	93 4,280	-26 219	based on Shanghai prices, incl. tax based on actual weight, incl. tax						

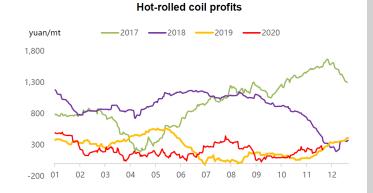
CHINESE STEEL MILL PROFITABILITY



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

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS												
	Iron Ore	Iron Ore Ind	ex Compilation	Rationale and Da	ta Exclusions							
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indice	es are compiled fron	n data provided by con	npanies that are				
Fe %	65.00	62.00	58.00	62.50	1		volved in spot market ansaction-level data su					
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications a			pecifications and				
Silica%	1.50	4.00	5.50	3.50	screened to remove outliers before volume-weighted average prices are 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							
Sulphur %	0.01	0.02	0.02	0.02	published on our w	published on our website at: www.mmiprices.com						
Moisture %	8.00	8.00	9.00	4.00								
Sizing	Granular size be	elow 10mm for at lea	st 90% of cargo;	Size below 6.3mm max 15%		Data Ex	cclusions*	65%				
Sizirig	maximu	ım of 40% below 150) micron	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0				
Pricing Point	Qingdao Port (FOT and CFR respectively)		FOT Qingdao Port	Lump Index 62.5	0		0					
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	within 8 weeks	Delivery within 2 weeks	* Number of price submissions for iron ore indices that were excluded from							
Payment Terms	L/C at sight			L/C at sight or CAD	index calculations today as they were anomalous and could not be verified							

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, 2020	December 16th, 2020 Specifications applied for 62% brand assessments						Specifi	cations appli	ed for 62%	brand asses	sments		
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture		
Roy Hill	60.88%	2.41%	4.32%	0.057%	9.48%	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%	2.31%	3.87%	0.099%	9.55%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%		
Newman Fines	62.45%	2.32%	4.06%	0.090%	7.83%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%		
MAC Fines	60.46%	2.39%	4.62%	0.079%	7.67%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%		
Jimblebar Blended Fines	60.88%	2.98%	4.50%	0.112%	7.44%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%		
Carajas Fines	64.92%	1.31%	1.83%	0.074%	7.86%	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%		
December 16th, 2020	Specifi	ications appli	ed for 58%	brand asses	ssments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.49%	3.16%	6.25%	0.063%	9.31%								
FMG Blended Fines	58.21%	2.47%	5.61%	0.056%	8.22%								
Robe River	56.42%	3.17%	5.77%	0.041%	8.50%								
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%	0.042%	9.43%								

	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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