

MMi Dashboard

Iron Ore Price Indices





821

-3 -0.36%

Dec 19th, 2022

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

944

8.00 0.85%

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

727
-1 -0.14%

Dec 19th, 2022

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

110.25

0.00 0.00%

Dec 19th, 2022

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

Dec 19th, 2022

115.80

0.00 0.00%

-3.02%

Dec 19th, 2022

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

920
-10 -1.08%

Week Ending Dec 16th, 2022

Exchange Traded Contracts

DCE Iron Ore 62% Fines I2305 (Jan) RMB/t (3pm close)



793.50

-27.50 -3.35%

Dec 19th, 2022 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines
January 23 USD/dmt

107.75

-3.35

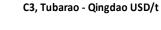
Dec 19th, 2022 (5.30 pm Print)

SHFE Rebar
RB2305 (Jan) RMB/t

3927
-122 -3.01%

Dec 19th, 2022 (3pm close)

Freight Rates





21.28

0.47 2.27%

Dec 16th, 2022

C5, W. Australia - Qingdao USD/t

8.63
-0.02 -0.29%

Dec 16th, 2022

Steel Price

Steel Rebar (China Domestic) RMB/t



4010

160 4.16%

Week Ending Dec 16th, 2022

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



130.63

0.19 0.15%

Week Ending Dec 16th, 2022

Steel Inventory in China million tonnes



8.71

-0.17 -1.95%

Week Ending Dec 16th, 2022

Steel Price

Steel HRC (China Domestic) RMB/t

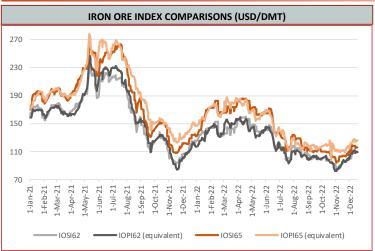


4140

70 1.72%

Week Ending Dec 16th, 2022

MMi Daily Iron Ore Index Report														Dec 19	th, 2022	2
						IRON ORI	E PORT S	TOCK INDEX	(IOPI)						
Dec 19th,	2022		FOT C	ingdao (i	nc. 13% VAT),	RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						1	
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low ²	High ²	Pri	ce Cha	ange (Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fine:	821	-3	-0.4%	758	864	643	1083	109	.37 -0.	.34	-0.3%	100.41	120.45	82.29	159.06
IOPI58	58% Fe Fine	727	-1	-0.1%	678	732	567	907	97.	46 - <mark>0</mark> .	.08	-0.1%	90.35	102.33	77.29	134.15
IOPI65	65% Fe Fine:	944	8	0.9%	888	1020	811	1265	126	.33 1.	18	0.9%	118.19	143.03	108.78	187.25
		II	RON ORE SE	ABORNE	INDEX (IOSI)							MARK	ЕТ СОММЕ	NTARY		
Dec 19th,	2022			CFR C	Qingdao, USD/c	lry tonne			see.The c	werall trading sentir	ment of the ma	arket is worse. PE	ract closed 793.5. The t BF at Shandong port de	alt 808 yuan/mt,decr	ease 12 yuan/mt; PB	F at Tangshan
Index	Fe Conter	t Price	Change	Change	% MTD	YTD	Low ²	High ²	ore globa	lly last week, an inci	rease of 13.3%	month on mont	ding to the shipping da th. Among them, 17.38 tons to China, up 51.79	million tons were shi	pped from Australia	to China, an
105162	62% Fe Fin	es 110.2	5 0.00	0.009	6 101.21	122.65	83.90	159.45	in the am	ount of iron ore arr	iving at the po	rt this time was o	n month decrease of 11 consistent with the pre d there was no pressur	vious shipment reduc	tion. On the demand	side, the output of
IOSI65	65% Fe Fin	es 115.8	0.00	0.009	6 111.58	141.04	94.45	185.82					ron this week may still			
						IRON ORE	PORT LU	JMP INDEX	(IOPLI)						
Week Ending	Dec 16th, 2022		FOT Q	ingdao (i	nc. 13% VAT),	RMB/wet		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³								
Index	Fe Content	Price	W-o-W	Change	% MTD	YTD	Low ²	High ²	Pri	ce W-	o-W C	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	920	-10	-1.1%	873	1048	770	1405	118	.15 -0.	.87	-0.73%	111.45	141.12	94.72	199.13
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX															
Week Endi	ing Dec 16th,	2022				RMB/ton	nne (exclu	ding tax) 3					USD/tonne	(excluding t	ax) ³	
Province	Region	Produc	t	Basis	This week	Change	%	Low ²	Hi	gh ²	This w	eek	Change %	Low	2	High ²
Hebei	Hanxin	g 66% Fe	Concentrate	Dry	992	3.9%		779	10	645	142.	54	4.27%	110.3	31	255.69
Hebei	Qian'a	1 65% Fe	Concentrate	Dry	1020	2.0%		780	10	630	146.	56	2.39%	110.5	51	251.57
Liaoning	Anshar	65% Fe	Concentrate	Wet	740	4.2%		620	13	310	106.	33	4.62%	87.4	0	202.32
Shandong	Zibo	65% Fe	Concentrate	Dry	1015	3.8%		800	1752 145.84 4.18 % 117.19					19	272.32	
	g Dec 16th, 202		- DAAD (MAT	This w			Low ²	High ² 1 Exchange rate applied: RMB/USD = 6.7522 ² Last 12 months 3 Weekly exchange rate applied: RMB/USD = 6.9596								
China Mines Concentrate Composite Index RMB/WT 883.25 3.51% 706.36								1511.22	IDC	N ODE CE	A D O D A	IE INIDEN	/ CED OINC	*DAO (USD	/DRAT\	
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)									IKC	ON ORE SE	ABURN	IE INDEX	(, CFR QING	DAU (USD	/DIVIT)	
2000 -								320 ——								
1800 - 1600 -		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						270 ——		M ~	1					
1400 -	~~//	M. A.	\					220								
1200	~~~//	my	h.	V	my m			170	\sim	ע ק	M		مهام	my.		
1000 p		Т,	Jakor	VV	my	Mary	المحالية	120			rj	Α.	المساكسيكي	and the	አጥ	
600 -			1/1/h	AND OF THE PROPERTY OF THE PRO				70			Ì				D. Com	A Property of the Parks
400 - 된	21 - 21 - 21 - 21 - 21 - 21 - 21 - 21 -	21 - 21 - 21 - 21 -	21 - 21 - 21 - 21 - 21 - 21 - 21 - 21 -	22 - 22 - 22 - 23 - 23 - 23 - 23 - 23 -	22 - 22	.22 -	.22	0. 1-Jan-21 1-Feb-21	1-Mar-21 - 1-Apr-21 -	1-May-21 - 1-Jun-21 - 1-Jul-21 -	1-Aug-21 - 1-Sep-21 -	1-0ct-21 1-Nov-21	1-Jan-22 - 1-Feb-22 - 1-Mar-22 -	1-Apr-22 1-May-22 1-Jun-22	1-Jul-22 1-Aug-22 1-Sep-22	1-Dec-22
1-Jan-21	1-Feb-21 1-Mar-21 1-Apr-21 1-May-21	1-Jun-21 1-Jul-21 1-Aug-21	1-Sep-21 1-Oct-21 1-Nov-21 1-Dec-21	1-Jan-22 1-Feb-22 1-Mar-22	1-Apr-22 1-May-22 1-Jun-22 1-Jul-22	1-Aug-22 1-Sep-22 1-Oct-22	1-Nov-22 1-Dec-22	1-Ja 1-Fe	1-Ma	1+Ma 1-Ju 1-Jt	1-Au 1-Se	1-De	1-Ja 1-Fe 1-Ma	1-Ap 1-Ma 1-Ju	1-Ju 1-Au 1-Se	1-De
		<u></u>		OPI58 —	IOPI65						_	— IOSI62	—— IOSI	65		
			IRO	ON ORE	PORT STOCK I	NDEX MO	NTHLY, C	QUARTERLY	AND Y	/EAR-TO-I	DATE A	VERAGE	S			
Dec 19th,	2022		FOT	Qingdao (inc. 13% VAT),	RMB/wet	tonne			CFR (Qingdad	Equivale	ent (exc. 13%	6 VAT), USD	/dry tonne	
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	Aug	ust Septe	ember (October	November	MTD	QTD	YTD
IOPI62	62% Fe Fines	781	759	736	714	758	760	864	106	.64 101	1.14	95.56	92.18	100.41	101.42	120.45
IOPI58	58% Fe Fines	685	697	683	635	678	678	732	94.	.05 93	.56	89.34	82.39	90.35	91.09	102.33
IOPI65	65% Fe Fines	878	875	918	865	888	893	1020	120	.31 117	7.19	120.08	112.37	118.19	119.74	143.03
IROI	N ORE SEABO	ORNE INDI	X MONTHL	, QUAR	TERLY AND Y	EAR-TO-DA	ATE AVER	AGES				FF	REIGHT RAT	ES		
Dec 19th,	2022				Qingdao, USD/d	ry tonne			Dec 16t	h, 2022			FREIGHT RA	ATES - DRY BUL		
Index	Fe Conten	t Augus	t Septembe	r Octobe	r November	MTD	QTD	YTD	Route		Designat	tion	Change	Change %	Low ²	High ²
105162	62% Fe Fin			95.80		101.21	102.74	122.65		ralia - Qingdao		8.63	-0.02	-0.29%	3.57	16.77
IOSI65	65% Fe Fin	es 112.53		106.70		111.58	113.83	141.04		- Qingdao	С3	21.28		2.27%	6.70	36.40
					PORT LUMP II			UARTERLY	AND Y							
_	Dec 16th, 2022			. • .	inc. 13% VAT),								nt (exc. 13%		•	
Index	Fe Content		•		r November	MTD	QTD	YTD		mber Oct			November		QTD	YTD
IOPLI62	62.5% Fe Lump	900	873	877	811	873	880	1048	118	.50 112	2.75	109.81	100.83	111.45	113.31	141.12
					IR	ON ORE IN	NDEX PRE	MIUMS/DI	scoul	NTS						
Dec 19th, 2					OCK INDEX (RM			Dec 19th, 20	022					NE INDEX (US		
Index		Content	•	to IOPI62	% 5	Spread to IO	PI62	Index		Fe Conte	nt	Spre	ad to IOSI62	,	% Spread to	IOSI62
IOPI58		Fe Fines Fe Fines		94 .23		-11.45% 14.98%		105165	65% Fe Fines		nes		5.55		5.03%	S
	1 2270															

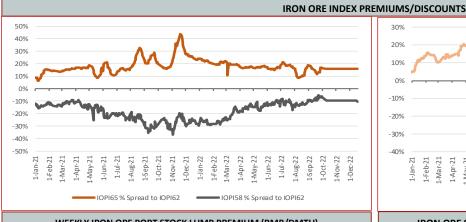




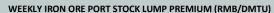
IRON ORE BRAND SPOT PRICE ASSESMENTS										
Dec 19th, 2022	PORT	STOCK INDEX (F	RMB/WT)	Dec 19th, 2022	SEABO	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	764	-3	-57	Roy Hill	105.75	0.00	-4.50			
SIMEC Fines	692	-3	-129	SIMEC Fines	102.25	0.00	-8.00			
PB Fines	790	-3	-31	PB Fines	106.50	0.00	-3.75			
Newman Fines	789	-3	-32	Newman Fines	109.35	0.00	-0.90			
MAC Fines	771	-3	-50	MAC Fines	106.50	0.00	-3.75			
Jimblebar Blended Fines	685	-3	-136	Jimblebar Blended Fines	98.85	0.00	-11.40			
Carajas Fines	1001	-3	180	Carajas Fines	139.80	0.00	29.55			
Brazilian SSF	784	-3	-37	Brazilian SSF	114.00	0.00	3.75			
Brazilian Blend Fines	803	-3	-18	Brazilian Blend Fines	115.60	0.00	5.35			
RTX Fines	704	-3	-117	RTX Fines	100.10	0.00	-10.15			
West Pilbara Fines	732	-3	-89	West Pilbara Fines	104.50	0.00	-5.75			

Dec 19th, 2022	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	727	-1	0				
FMG Blended Fines	736	-1	9				
Robe River	737	-1	10				
Western Fines	739	-1	12				
Atlas Fines	734	-1	7				
Yandi	720	-1	-7				

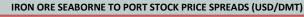
				IRON ORE IN	DEX NORM	ALISATION DIFFER	ENTIALS				
Po	ort Stock Index	Product Differe	ntials (RN	/IB/wet tonne)		Seaborne Index Product Differentials (USD/dry tonne)					
	App	olicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	Fe 60 - 63%		29.00	1.00		High Grade	e Fe 60 - 63%	,	2.25	0.00
	High Grade	Fe 63 - 64%		34.00 5.00			High Grade	High Grade Fe 63 - 64%		0.25	0.00
1% Fe	High Grade	Fe 64 - 65%		34.00	5.00	1% Fe	High Grade	High Grade Fe 64 - 65%		0.25	0.00
	High Grade Fe 65 - 65.5%			34.00	5.00		High Grade	High Grade Fe 65 - 65.5%		0.25	0.00
	Low Grade Fe			17.00	2.00						
40/ 41	High Fe Grade Al <2.25%			91.00	5.00		High Fe Gr	High Fe Grade AI <2.25%		0.50	0.00
	High Fe Grade Al 2.25-4%			38.00	5.00	40/ 11	High Fe Gr	ade Al 2.25-4	! %	2.25	0.00
1% Alumina	Low Fe Grad	le Al <2.25%		48.00	-5.00	1% Alumina					
	Low Fe Grad	le Al 2.25-4%		11.00	4.00						
	High Fe Grad	de Si <4%		42.00 3.00			High Fe Gr	ade Si <4%		0.25	0.00
1% Silica	High Fe Grade Si 4-6.5%			42.00	1.00	1% Silica	High Fe Gr	High Fe Grade Si 4 - 6.5%		2.00	0.00
	Low Fe Grade			7.00 2.00							
0.040/	High Fe Grad	de 0.09% <p<0.1< td=""><td>15%</td><td>18.00</td><td>3.00</td><td>0.01%</td><td colspan="2">High Fe Grade 0.09%<p<0.115%< td=""><td><0.115%</td><td>1.25</td><td>0.00</td></p<0.115%<></td></p<0.1<>	15%	18.00	3.00	0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td><0.115%</td><td>1.25</td><td>0.00</td></p<0.115%<>		<0.115%	1.25	0.00
0.01%	High Fe Grad	de 0.115% <p<0.< td=""><td>15%</td><td>18.00</td><td>3.00</td><td colspan="2">Phosphorus High Fe Grade 0.115%<p<0.1< td=""><td>P<0.15%</td><td>2.75</td><td>0.00</td></p<0.1<></td></p<0.<>	15%	18.00	3.00	Phosphorus High Fe Grade 0.115% <p<0.1< td=""><td>P<0.15%</td><td>2.75</td><td>0.00</td></p<0.1<>		P<0.15%	2.75	0.00	
Phosphorus	Low Fe Grad	le 0.09 <p<0.1%< td=""><td></td><td>5.00</td><td>0.00</td><td></td><td></td><td colspan="2"></td><td></td><td></td></p<0.1%<>		5.00	0.00						
			Port Sto	ock Price Differen	tials to Qingo	dao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Port	Value	Chang	ge Port	Value	Change	Port	Value	Change
Bayuquan	-100.00	0.00	Fangchen	g -25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-30.00	0.00	7 . 0 . 0	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-10.00	10.00	Jingtang	-20.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-10.00	0.00

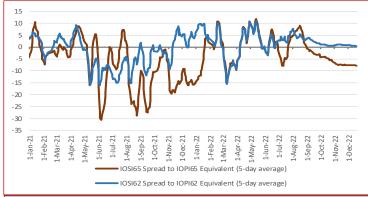




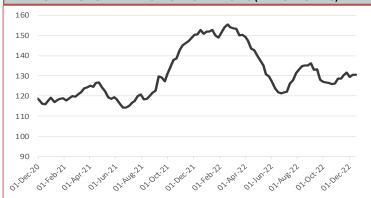








TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



	FUTURE TRADING—FRONT MONTH CLOSING PRICE	
1500 1400 1300 1200 1200 1100 1000 1000 1000 10	1-Jan-21 1-Maj-21 1-May-21 1-Mug-22 1-Jul-22	250 230 210 190 170 JLWQ/QSN 130 110 90 70
	1-Jan-21 1-Ab-21 1-Ab-21 1-Ab-21 1-Aug-21 1-Aug-22 1-Jun-22 1-Jun-	70

IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Dec 16th, 2022									
Province	This week	Change %	Low ²	High ²					
Jingtang	12.78	-1.54%	9.84	19.20					
Qingdao	25.74	2.75%	9.41	26.24					
Caofeidian	12.38	0.41%	9.05	16.29					
Tianjin	9.31	3.67%	7.14	12.97					
Rizhao	17.47	-0.85%	9.44	19.26					
Total (35 Ports)	130.63	0.15%	98.80	155.39					

	D	CE (RMB/WN	1T)	SGX (USD/DMT)				
Closing Date	Dec 19th, 3pm close		De	ec 19th, 5:30	om			
Contract	12305	Change	Change %	Jan. 23	Change	Change %		
Closing Price	793.50	-27.50	-3.35%	107.75	-3.35	-3.02%		
Vol traded ('000 lots)	109.19	-3.67	-3.25%	3.69	-1.27	-25.62%		
Open positions ('000 lots)	77.41	-0.91	-1.16%	32.62	-0.18	-0.55%		
Day Low	792.0	-11.00	-1.37%	107.20	0.00	0.00%		
Day High	821.5	-20.00	-2.38%	111.30	-1.60	-1.42%		

IRON ORE FUTURES CONTRACTS

DRY BULK FREIGHT RATES (USD/MT) 50 40 30 10 4-0ct-21 4-Aug-22 4-Sep-22 4-Jun-22 4-Nov-21 4-Dec-21



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MMi Daily Iron Ore Index Repoi	rt				Dec 19th, 2022			
STEEL SPOT MARK	ET PRICES—CHIN	IA		CHINESE STEEL MILL PROFITABILITY				
Steel Spot Market RMB/tonne				SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)				
Product	2022/12/16	Change	Change %	Category	Price Change (WoW) Note			
ReBar HRB400 ф18mm	4,010	160	4.16%	MMi (Fe 62%), USD/mt exluding tax	110.25 3 Mmi CFR Equivalent index for 1st Feb			
	·	60		Coke Steel Scrap	3,070 110 2nd grade met coke, Tangshan, incl. tax 3,090 80 steel scrap (6mm) in Zhangjiagang, exl. tax			
Wirerod Q300 ¢6.5mm	4,280		1.42%	Billet Cost	3,736 74 Q234, incl. tax			
HRC Q235/SS400 5.5mm*1500*C	4,140	70	1.72%	Rebar cost - Blast furnace	4,255 84 calculated based on theoretical weight, incl. tax			
CRC SPCC/ST12 1.0mm*1250*2500	4,560	120	2.70%	Rebar profit - Blast furnace	-255 66 based on Shanghai prices, incl. tax			
Medium & Heavy Plate Q235B 20mm	4,190	120	2.95%	Hot-rolled coil cost - Blast furnace Hot-rolled coil proft - Blast furnace	4,216 82 based on actual weight, incl. tax -76 -12 based on Shanghai prices, incl. tax			
GI ST02Z 1.0mm*1000*C	4,850	120	2.54%		on todays market prices and facout our management, sales, financial and depreciations for			
Colour Coated Plate	7,530	80	1.07%		based on SMM's survey of small, medium and large mills in China			
CHINESE STEEL	INVENTORIES			CHIN	IESE STEEL MILL PROFITABILITY			
Total Social Steel Inventory CHINESE STEEL MILL P 2019 — 2020 1500 1000 500 -500	PROFITABILITY—I	Rebar 2022		Rebar Prof	## HRC Profit for BOF Mill HRC Profit for BOF Mill			
CHINESE STEEL CON	ISUMPTION—Re	bar		CHINESE STEEL CONSUMPTION—Hot-rolled Coil				
20192020	2021	2022		2019	2020 — 2021 — 2022			
5500 4000 2500 1000 -500 01 02 03 04 05 06	07 08 0	9—10	4000 3600 3200 2800 2400					
-2000				01 02 03 04	05 06 07 08 09 10 11 12			
CHINESE STEEL PRO				.,	TEEL PRODUCTION—Hot-rolled Coil			
——————————————————————————————————————	2021	— 2022		3600	2020 — 2021 — 2022			
3500 3000 2500				3200 3200 3000				
01 02 03 04 05 06	07 08 09	9 10	11 12	01 02 03 04	05 06 07 08 09 10 11 12			

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Timing (Seaborne)

Payment Terms

* 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 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 62.00 Fe % 65.00 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. 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 website at: www.mmiprices.com Moisture % 9.00 4.00 8.00 8.00 Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15% Sizing maximum of 40% below 150 micron Size above 31.15mm max 25% Qingdao Port (FOT and CFR respectively) FOT Qingdao Port **Pricing Point** ump Index 62.5

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

Delivery within 2 weeks

L/C at sight or CAD

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.

		AVER	AGE IRON	ORE SPECIF	ICATIONS A	APPLIED FOR BRAND PRICE ASSESSMENTS						
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
Dec 19th, 2022	Specific	ations appli	ed for 62%	brand asse	ssments		Specifications applied for 62% brand assessments					
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture	
Roy Hill	60.88%	2.35%	4.45%	0.055%	9.26%	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%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%	
Newman Fines	62.49%	2.31%	3.98%	0.090%	7.72%	Newman Fines	62.30%	2.40%	4.30%	0.095%	8.00%	
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%	MAC Fines	60.80%	2.35%	4.40%	0.075%	7.80%	
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%	Jimblebar Blended Fines	60.50%	3.10%	4.80%	0.120%	7.80%	
Carajas Fines	64.90%	1.39%	1.82%	0.080%	7.78%	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	62.56%	1.58%	4.79%	0.091%	8.72%	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%	
Dec 19th, 2022	Specific	ations appli	ed for 58%	brand asse	ssments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.49%	3.20%	6.19%	0.065%	9.18%							
FMG Blended Fines	58.20%	2.43%	5.54%	0.057%	8.29%							
Robe River	56.44%	3.16%	5.73%	0.042%	8.44%							
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	56.87%	1.58%	6.41%	0.042%	9.53%							
Tallul	30.87%	1.58%	0.41%	0.042%	9.53%							

	BLOOMBERG TICKERS											
	PORT STO	OCK INDICES		SEABORNE INDICES								
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)								
IOPI62	IRCNQ001	IRCNQ004	10SI62	IRCN0034								
IOPI58	IRCNQ002	IRCNQ005	IOSI65	IRCN0035								
IOPI65	IRCNQ003	IRCNQ006										
IOPL162	IRCN0036	IRCN0037										

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