

# MMi Dashboard

### **Iron Ore Price Indices**





698

0.14%

October 23rd 2019

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



-0.14%

October 23rd 2019

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



635

2.09%

13

October 23rd 2019

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



88.25

0.95 1.09%

October 23rd 2019

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



95.20

0.55 0.58%

October 23rd 2019

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



830

-1.07%

Week Ending October 18th, 2019

### **Exchange Traded Contracts**

DCE Iron Ore 62% Fines 12001 (Jan) RMB/t



620.50

4.50 0.73%

October 23rd 2019

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines November'19 USD/dmt



84.00

0.42 0.50%

October 23rd 2019 (5.30 pm Print)

**SHFE Rebar** RB2001 (Jan) RMB/t



-6.00 -0.18%

October 23rd 2019

(3pm close)

# **Freight Rates**

C3, Tubarao - Qingdao USD/t



October 22nd 2019

20.17

-0.68 -3.24%

C5, W. Australia - Qingdao USD/t



8.86

-0.13 -1.46%

October 22nd 2019

**Steel Price** 

Steel Rebar (China Domestic) RMB/t



3670

-1.87%

Week Ending October 18th, 2019

# **Inventory Levels**

Iron Ore Inventory at Chinese Ports (35) million tonnes



117.51

0.87 0.75%

Week Ending October 18th, 2019

Steel Inventory in China

million tonnes



**12.44** 

-0.71 -5.43%

Week Ending October 18th, 2019

**Steel Price** 

Steel HRC (China Domestic) RMB/t



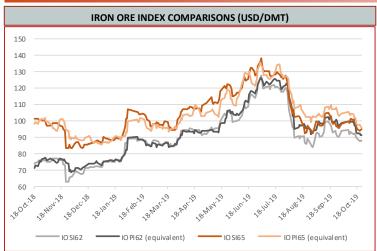
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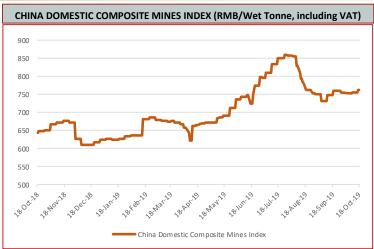
-1.68%

Week Ending October 18th, 2019

www.mmiprices.com Page 1/6 October 23rd 2019

MMi D	aily Iron (	Ore Inde	ex Report											Octob	er 23rd	2019
						IRON OR	RE PORT S	TOCK INDEX	(IOPI	1)						
October 2	3rd 2019		FOT C	Qingdao (	(inc. 13% VAT),	RMB/wet	tonne			CFR C	Qingdao E	quivale	nt (exc. 13%	VAT), USD,	dry tonne	1
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Pri	ice Cha	inge Ch	ange %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fine	s <b>698</b>	1	0.1%	733	728	535	928	91.	.09 0.	03	0.0%	95.93	97.33	68.50	126.12
IOPI58	58% Fe Fine	s <b>635</b>	13	2.1%	642	640	375	823	83.	.43 1.	69	2.1%	84.42	85.68	46.88	112.44
IOPI65	65% Fe Fine	s <b>736</b>	-1	-0.1%	770	796	654	992	96.	.26 - <mark>0</mark> .	.25 -	0.3%	100.98	106.81	85.47	135.34
		ı	RON ORE SEA	ABORNE	INDEX (IOSI)							MARK	ET COMMI	NTARY		
October 2	3rd 2019			CFR Q	ingdao, USD/d	ry tonne							raders quote higher er, Tangshan annou			
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>					e some mills in Nort e potential prohibit			
IOSI62	62% Fe Fine	s <b>88.25</b>	0.95	1.09%	6 91.88	95.15	62.95	127.50								
IOSI65	65% Fe Fine	s <b>95.20</b>	0.55	0.58%	6 98.23	106.71	83.20	137.95	<u> </u>							
						IRON OR	E PORT L	JMP INDEX	(IOPL	l)						
Week Endi 18th, 2019	ng October		FOT C	Qingdao (	inc. 16% VAT),	RMB/wet	tonne			CFR Q	ingdao Ed	quivaler	nt (exc. 16%	VAT), USD/	dry tonne	3
Index	Fe Content	Price	W-o-W	Change	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Pri	ice W-	oW Ch	ange %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe Lum	p <b>830</b>	-9	-1.1%	835	887	710	1051	101	.82 -1.	.15 -:	1.12%	102.39	112.48	88.56	133.81
			IRO	N ORE D	OMESTIC COI	NCENTRA	TE SPOT P	RICE ASSES	SMEN	ITS AND CO	OMPOSIT	TE INDE	X			
Week End	ing October 1	8th, 2019				RMB/to	nne (exclu	ding tax) 3					USD/tonne	(excluding t	ax) <sup>3</sup>	
Province	Region	n Produ	ct	Basis	This week	Change	e %	Low <sup>2</sup>	Н	igh ²	This wee	ek	Change %	Low	, 2	High <sup>2</sup>
Hebei	Hanxir	ng 66% F	e Concentrate	Dry	852	-0.69	%	644	1	032	120.45	5	-0.59%	93.5	88	150.03
Hebei	Qian'a	n 65% F	e Concentrate	Dry	905	0.0%	6	690	9	960	127.95	;	-0.01%	100.	26	139.35
Liaoning	Ansha	<b>n</b> 65% F	e Concentrate	Wet	650	0.0%	6	535	7	745	91.90		-0.01%	77.3	39	104.66
Shandong	Zibo	65% F	e Concentrate	Dry	895	0.0%	6	740	1040 <b>126.53</b> -0.01%		106.	55	151.33			
	Week Ending October 18th, 2019  This week Change % Low High 1 Exchange rate applied: RMB/USD = 7.0572 <sup>2</sup> Last 12 months  Sching Micro Countries Countries Countries and the Part of the Pa															
China Mine:	IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)  IRON ORE SEABORNE INDEX, FOT QINGDAO (USD/DMT)															
1050								145 —— 135 ——						Α		
950								125 —						M	1	
750	~^		\~~~	~~~		June 1	7	115			m	_	~~~~	٠, ١		
650 -	~~~	~~~	my	امر کسست امرسسست		لرنهم	~	95		~	5 h	~/~	المميد	<i>ل</i> م	(JVX)	the state of
550		رسب	~~~					85 — 75 <b>~~</b>	~\~		Γ' Υ	~~			•	
450 – 350 –		ممم						65	\ <u>\</u>	<b>~</b>						
250 -		-				-	-	55 45	,			,			-	
230t.18	3 Nov. 18 Dec. 18	23/201.19	19 NATIO 23 ADTIC	23:May 19	Ann. 19 23 mi. 19	18:19 23:5EP:19	13-04:19	780878	1.78 1.78	ecip Aglianing	9.F8b.19	1.79 YOUNG	78 War 18	Janua Janua	3. AUE 19 19 SEP	19 2904.19
,	<i>. .</i>			OPI58 -	10 Pl 65	ν				,		IO SI62	IOS		,	
					PORT STOCK	INIDEV NAC	ONTHIV	NIA DTERIV	AND	VEAD TO F	NATE AV/					
October 2	3rd 2019				(inc. 13% VAT),			QUANTENLT	AND				ent (exc. 13%	4 VAT) LISD.	/dry tonne	
Index	Fe Conten	t June	July		t September	MTD	QTD	YTD	Ju			•	September		QTD	YTD
IOPI62	62% Fe Fine		909	759	758	733	733	728			•	23.29	100.18	95.93	95.93	97.33
IOPI58	58% Fe Fine		809	691	674	642	642	640				10.47	91.86	84.42	84.42	85.68
IOPI65	65% Fe Fine	es 901	954	823	803	770	770	796	110	0.00 121	1.97 1	29.53	108.92	100.98	100.98	106.81
IRO	N ORE SEAB	ORNE IND	EX MONTHL	Y, QUAR	TERLY AND Y	EAR-TO-D	ATE AVE	RAGES				FF	REIGHT RAT	ΓES		
October 2	3rd 2019			CFR C	Qingdao, USD/d	ry tonne			Octobe	er 22nd 2019			FREIGHT RA	ATES - DRY BUI	K US\$/wet to	nne
Index	Fe Conten	t June	July	Augus	t September	MTD	QTD	YTD	Route	:	Designation	n	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>
IOSI62	62% Fe Fine	es 108.57	7 120.82	92.61	93.76	91.88	91.88	95.15	W. Aust	tralia - Qingdao	C5	8.86	-0.13	-1.46%	4.39	11.42
IOSI65	65% Fe Fine	es 124.49	129.53	101.34	1 99.42	98.23	98.23	106.71	Tubarad	o - Qingdao	СЗ	20.17	-0.68	-3.24%	11.61	29.10
			IRO	ON ORE	PORT LUMP I	NDEX MC	ONTHLY, C	UARTERLY	AND Y	/EAR-TO-D	ATE AVE	RAGES	3			
Week Endir 2019	ng October 18tl	1,	FOT	Qingdao	(inc. 16% VAT),	, RMB/wet	tonne			CFR C	Qingdao E	quivale	nt (exc. 16%	6 VAT), USD	dry tonne	1
Index	Fe Conten	t June	July	Augus	st September	MTD	QTD	YTD	M	lay Ju	ine	July	Septembe	r MTD	QTD	YTD
IOPLI62	62.5% Fe Lun	1009	1046	870	803	835	835	887	128	3.00 132	2.99 1	.08.80	98.44	102.39	102.39	112.48
					IR	ON ORE I	INDEX PRI	MIUMS/DI	scou	NTS						
October 23	rd 2019			PORT S	TOCK INDEX (RM	IB/WT)		October 23r	d 2019	1			SEABOR	NE INDEX (US	D/DMT)	
Index		Content		to IOPI62	2 %	Spread to I		Index		Fe Conte	nt	Spre	ad to IOSI62		% Spread to	IOSI62
IOPI58 IOPI65		Fe Fines Fe Fines		-63 38		-9.03% 5.44%		IOSI65		65% Fe Fir	nes		6.95		7.889	%
	1 237															





IRON ORE BRAND SPOT PRICE ASSESMENTS												
October 23rd 2019	PORT S	TOCK INDEX (R	MB/WT)	October 23rd 2019	SEABORNE INDEX (USD/DMT)							
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62					
Roy Hill	676	7	-22	Roy Hill	85.46	0.95	-2.79					
SIMEC Fines	677	19	-21	SIMEC Fines	82.66	0.95	-5.59					
PB Fines	674	1	-24	PB Fines	86.84	0.95	-1.41					
Newman Fines	704	1	6	Newman Fines	88.65	0.95	0.40					
MAC Fines	685	7	-13	MAC Fines	84.96	0.95	-3.29					
Jimblebar Blended Fines	622	6	-76	Jimblebar Blended Fines	74.56	0.95	-13.69					
Carajas Fines	738	-2	40	Carajas Fines	94.92	0.95	6.67					
Brazilian SSF	704	15	6	Brazilian SSF	85.75	0.95	-2.50					
Brazilian Blend Fines	704	2	6	Brazilian Blend Fines	88.00	0.95	-0.25					
RTX Fines	648	6	-50	RTX Fines	79.66	0.95	-8.59					
West Pilbara Fines	668	9	-30	West Pilbara Fines	85.16	0.95	-3.09					

October 23rd 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	567	6	-68					
FMG Blended Fines	631	12	-4					
Robe River	575	8	-60					
Western Fines	577	7	-58					
Atlas Fines	567	6	-68					
Yandi	605	10	-30					

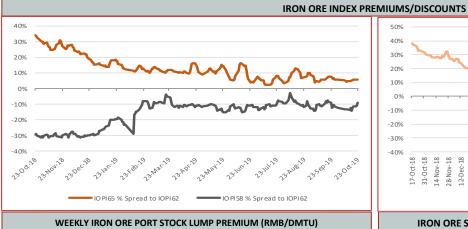
				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne)		Sea	aborne Inde	x Product Di	fferentials (	USD/dry tonne	:)
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		11.00	-2.00		High Grad	de Fe 60 - 63	%	1.00	0.00
	High Grade	High Grade Fe 63 - 64%		7.00	0.00		High Grad	High Grade Fe 63 - 64%		1.25	0.00
l% Fe	High Grade	e Fe 64 - 65%		7.00	0.00	1% Fe	High Grad	High Grade Fe 64 - 65%		1.25	0.00
	High Grade	e Fe 65 - 65.5%		7.00	0.00		High Grad	de Fe 65 - 65	.5%	1.25	0.00
	Low Grade	Fe		18.00	2.00						
	High Fe Gra	High Fe Grade Al <2.25% High Fe Grade Al 2.25-4%		3.00	-1.00		High Fe G	High Fe Grade Al <2.25%		1.00	0.00
10/ 11	High Fe Gra			32.00	0.00	40/ 41	High Fe G	rade Al 2.25	-4%	2.75	0.00
1% Alumina	Low Fe Gra	de Al <2.25%		2.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		39.00	3.00						
	High Fe Gra	ade Si <4%		4.00	0.00		High Fe G	rade Si <4%		1.00	0.00
L% Silica	High Fe Gra	High Fe Grade Si 4-6.5%		5.00	-6.00	1% Silica	High Fe G	rade Si 4 - 6	.5%	1.50	0.00
	Low Fe Gra	de		21.00	2.00						
2.040/	High Fe Gra	High Fe Grade 0.09% <p<0.115%< td=""><td colspan="2">5.00 0.00</td><td>0.01%</td><td colspan="3">6 High Fe Grade 0.09%<p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<></td></p<0.115%<>		5.00 0.00		0.01%	6 High Fe Grade 0.09% <p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<>			0.00	0.00
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>0.00</td><td>0.00</td><td>Phosphorus</td><td colspan="2">High Fe Grade 0.115%</td><td><p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	0.00	0.00	Phosphorus	High Fe Grade 0.115%		<p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<>	2.25	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>0.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	0.00	0.00						
			Port S	Stock Price Differe	ntials to Qingd	ao 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	rg -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-50.00	0.00	Langiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	-20.00	0.00

3.50

2.50 2.00 1.50 1.00 0.50

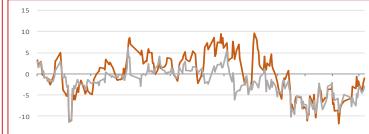
-0.50<sup>.29</sup>

IOSI62 Spread to IOPI62 Equivalent





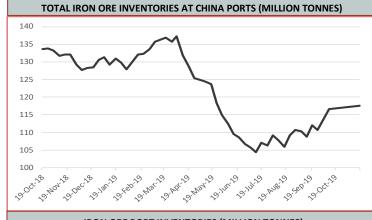




IOSI65 Spread to IOPI65 Equivalent

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





	FUTURE TRADING—FRONT MONTH CLOSING PRICE	
]	1000	130
	900	120
	0.800	110
	E SOURCE STATE OF THE STATE OF	100 \
	9800 19700 1980 19700	100 LMd/dSU
	≥ 600	≦ 80
	500	
	<b>9</b>	70
	400	60
	BOCLIS BEERIS	
	—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)	

IF	IRON ORE PORT INVENTORIES (MILLION TONNES)										
Week Ending Octo	ber 18th, 2019			Now <sup>2</sup> High <sup>2</sup> 10.80 16.68 12.38 19.01 14.32 19.96 6.37 10.05 11.41 17.10							
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>							
Jingtang	16.68	10.03%	10.80	16.68							
Qingdao	13.50	-3.30%	12.38	19.01							
Caofeidian	16.72	0.00%	14.32	19.96							
Tianjin	7.40	1.79%	6.37	10.05							
Rizhao	13.66	4.75%	11.41	17.10							
Total (35 Ports)	117.51	0.75%	104.40	137.30							

	D	CE (RMB/WN	IT)	SGX (USD/DMT) Oct 23rd 5.30 pm				
Closing Date	Oc	t 23rd 3pm cl	ose					
Contract	12001	2001 Change Change %		Nov'19 Change		Change %		
Closing Price	620.50	4.5	0.73%	84.00	0.42	0.50%		
Vol traded ('000 lots)	210.11	15.5	7.98%	13.13	-7.06	-34.97%		
Open positions ('000 lots)	167.86	-1.9	-1.10%	126.67	-3.66	-2.81%		
Day Low	615.5	8.0	1.32%	83.43	0.93	1.13%		
Day High	628.0	9.0	1.45%	84.95	1.18	1.41%		

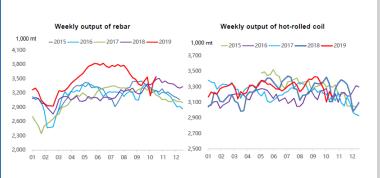
**IRON ORE FUTURES CONTRACTS** 

DRY BULK FREIGHT RATES (USD/MT)									
35									
30									
25									
20									
15									
10									
5									
0									
Pocris Buris									
—— C5 - W. Australia - Qingdao —— C3 - Tubarao - Qingdao									



### STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne										
Product	18/10/2019	Change	Change %							
ReBar HRB400 ¢18mm	3,670.0	-70	-1.87%							
Wirerod Q300 ¢6.5mm	4,040.0	-60	-1.46%							
HRC Q235/SS400 5.5mm*1500*C	3,510.0	-60	-1.68%							
CRC SPCC/ST12 1.0mm*1250*2500	4,240.0	-30	-0.70%							
Medium & Heavy Plate Q235B 20mm	3,700.0	-60	-1.60%							
GI ST02Z 1.0mm*1000*C	4,430.0	-60	-1.34%							
Colour Coated Plate	6,900.0	50	0.73%							



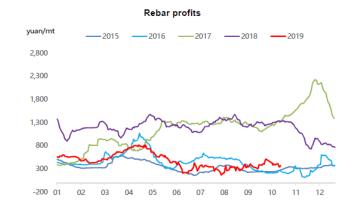
CHINESE STEEL MILL PROFITABILITY											
SMM Tracking of	SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)										
Category	Price	Change (WoW)	Note								
MMi (Fe 62%), USD/mt exluding tax	89.50	-4.10	Mmi CFR Equivalent index for 1st Feb								
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax								
Steel Scrap	2,280	-100	steel scrap (6mm) in Zhangjiagang, exl. tax								
Billet Cost	3,011	-72	Q234, incl. tax								
Rebar cost - Blast furnace	3,250	-73	calculated based on theoretical weight, incl. tax								
Rebar profit - Blast furnace	370	-17	based on Shanghai prices, incl. tax								
Hot-rolled coil cost - Blast furnace	3,327	-72	based on actual weight, incl. tax								
Hot-rolled coil proft - Blast furnace	193	-8	based on Shanghai prices, incl. tax								

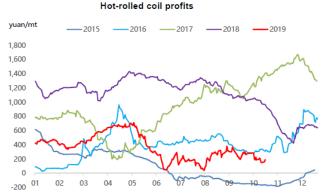
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

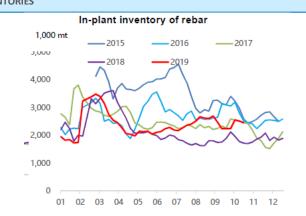


### **CHINESE STEEL MILL PROFITABILITY**





# Total Social Steel Inventory CHINESE STEEL INVENTORIES CHINESE STEEL INVENTORIES 18 16 14 44 2 2 17 Total Social Steel Inventory Total Steel Inventory at Steel Mills



Payment Terms

# IRON ORE INDEX SPECIFICATIONS COMPILATION RATIONALE AND DATA EXCLUSIONS

				WIFILATION RATIONALE AND DA	1			
	Iron Ore	Index Specifications	(Port and Seaborne	) Iron Ore Index Compilation Rationale and Data				ta Exclusions
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indic	es are compiled from	data provided by com	npanies that are
Fe %	65.00	62.00	58.00	62.50	part of the iron ore supply chain and involved in spot market transactions. The 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			
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 website at: www.mmiprices.com			
Moisture %	8.00	8.00	9.00	4.00				
	C	-l 10 f + l	-+ 000/ -f	Sing halaw 6 2 450/			clusions*	
Sizing		elow 10mm for at lea	0 /	Size below 6.3mm max 15%		62%	58%	65%
3121116	maximu	um of 40% below 150	) micron	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0
Pricing Point	Qingdao F	Port (FOT and CFR res	spectively)	FOT Qingdao Port	Lump Index 62.5	0		U .
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 fro			

### IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

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	PPLIED FOR BRAND PRICE A	SSESSMEN	TS						
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS							
October 23rd 2019	Specifi	cations appli	ed for 62%	brand asses	sments		Specifications applied for 62% brand assessments						
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture		
Roy Hill	61.16%	2.25%	4.61%	0.052%	9.35%	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	61.54%	2.40%	3.68%	0.097%	9.58%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%		
Newman Fines	62.50%	2.19%	4.13%	0.092%	7.74%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%		
MAC Fines	60.88%	2.25%	4.62%	0.080%	7.61%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%		
Jimblebar Blended Fines	60.48%	3.05%	4.60%	0.118%	7.70%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%		
Carajas Fines	65.44%	1.29%	1.34%	0.078%	8.22%	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	62.92%	1.54%	4.60%	0.069%	8.39%	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%		
October 23rd 2019	Specifi	cations appli	ed for 58%	brand asses	sments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.56%	3.05%	6.24%	0.051%	8.14%								
FMG Blended Fines	58.17%	2.65%	5.44%	0.057%	7.90%								
Robe River	56.28%	2.91%	5.58%	0.035%	9.29%								
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	57.23%	1.58%	6.35%	0.041%	9.02%								

BLOOMBERG TICKERS				
	PORT STOCK 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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