## FIS

## **Commodities Derivatives Factsheet - Jul 22**

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Freight -FFA  Dry FFA Spot \$/Day	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest/day	29-Jul-22 YTD Notional Value Million \$		14 Day True Range \$/Day	Trading Exchange
Cape5TC	28,925	5,826	86,953	15,911	460.2	477,337	164,621	13,807	108.5%	1020.7	EEX, SGX
Panamax4TC	25,226	14,549	37,616	18,354	463.0	550,633	195,819	13,890	36.5%	290.3	EEX, SGX
Supramax10TC	28,617	17,273	39.860	8,651	247.6	259,516	87,705	7,427	14.5%	228.7	EEX, SGX
Options	20,017	/	33,000	7,314	356.9	219,415	197,991	10,708	/	/	EEX, SGX
Wet FFA Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume/mt		YTD Market Volume	Open Interest/mt	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range \$/mt	Trading Exchange
TD3C	7.70	5.61	11.28	5,203,867	40.1	156,116,000	73,725,000	1,201.8	26.1%	0.096	ICE, CME
TD20	11.69	7.19	26.45	1,973,733	23.1	59,212,000	22,798,000	692.0	36.4%	0.248	ICE, CME
TC2 37	23.83	12.07	49.24	1,371,833	32.7	41,155,000	8,489,000	980.5	47.1%	1.286	ICE, CME
TC5	35.42	18.05	77.60	1,661,200	58.8	49,836,000	13,212,000	1,765.0	30.8%	0.971	ICE, CME
TC6	15.12	7.12	33.36	490,967	7.4	14,729,000	3,526,000	222.7	59.1%	0.442	ICE, CME
TC14	26.91	9.88	79.67	887,233	23.9	26,617,000	6,573,000	716.2	100.1%	2.721	ICE, CME
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Iron Ore								29-Jul-22			
Iron Ore Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Iron Ore 62% Fe	129.31	87.20	184.15	45,254,893	5,851.9	1,357,646,800	90,492,300	175,557	46.8%	1.335	CME, SGX
Iron Ore 65% Fe	151.97	102.00	215.40	917,293	139.4	27,518,800	2,129,100	4,182	49.0%	1.313	CME, SGX
Options IO 62% Fe	/	/	/	10,610,427	1,372.0	318,312,800	82,208,500	41,161	/	/	CME, SGX
Energy								29-Jul-22			0
Coking Coal Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Coking Coal Australia	393.14	191.00	670.50	117,937	46.4	3,538,100	1,819,600	1,391	74.0%	2.339	SGX
Fuel Oil Spot \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
Singapore 380cst Fuel Oil	512.03	377.15	715.96	9,323,700	4,774.0	279,711,000	15,951,000	143,220	55.0%	4.589	ICE, CME, SGX
3.5% FOB Rotterdam Barges	488.30	354.25	694.00	6,062,033	2,960.1	181,861,000	13,030,000	88,804	71.5%	15.036	ICE, CME
Marine Fuel 0.5% Singapore	717.30	482.96	1057.61	8,720,800	6,255.4	261,624,000	15,353,000	187,663	24.6%	6.399	ICE, CME, SGX
Emissions Active Contracts /mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million €/\$	YTD Market Volume	Open Interest	YTD Notional Value Million €	30 Day Volatility	14 Day True Range	Trading Exchange
EUA Futures €/mt	75.26	53.45	96.48	159,978,967	12,040.1	4,799,369,000	676,436,000	361,203	37.3%	1.711	ICE, EEX
EUA Options €/mt		/		47,398,433	3,567.2	1,421,953,000	328,859,000	107,017	/	/	ICE, EEX
GEO Futures \$/mt	6.46	2.91	9.09	634,533	4.1	19,036,000	2,974,000	123	60.7%	0.093	CME
N-GEO Futures \$/mt	10.92	5.53	16.14	2,899,433	31.7	86,983,000	15,316,000	950	35.2%	0.170	CME
Natural Gas Active Contracts	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
LNG Japan/Korea Marker \$/MMBtu	29.80	15.18	51.77	114,420,667	3,410.1	3,432,620,000	808,500,000	102,302	49.5%	1.027	ICE, CME
LPG Propane Far East \$/mt	797.48	636.62	1001.03	3,697,167	2,948.4	110,915,000	12,709,000	88,453	14.4%	9.675	ICE, CME
LPG Propane Saudi CP \$/mt	772.81	627.32	968.48	1,339,867	1,035.5	40,196,000	4,291,000	31,064	29.0%	9.701	ICE, CME
							1				
Ferrous Metals	10.11							29-Jul-22			0
Active Contract \$/mt	12 Month Avg	12 Month Low	12 Month High	Avg Weekly Volume	Avg Weekly Notional Value Million \$	YTD Market Volume	Open Interest	YTD Notional Value Million \$	30 Day Volatility	14 Day True Range	Trading Exchange
CME CRU HRC \$/short ton	1465	850	1945	105,431	154.5	3,162,920	450,440	4,634.0	57.0%		CME
CME European HRC	1034						=0.040	200 =		14.827	
US Busheling Scrap  LME Steel Scrap		805	1400	12,274	12.7	368,220	59,240	380.7	21.1%	3.247	CME
IIIME STEEL SCRAD	618	460	900	12,283	7.6	368,500	139,000	227.9	21.1% 24.7%	3.247 3.221	CME CME
·	618 490	460 368	900 700	12,283 80,660	7.6 39.5	368,500 2,419,800	139,000 61,870	227.9 1,185.0	21.1% 24.7% 30.2%	3.247 3.221 3.958	CME CME LME
LME Steel Rebar	618 490 750	460 368 660	900 700 950	12,283 80,660 21,299	7.6 39.5 16.0	368,500 2,419,800 638,960	139,000 61,870 20,290	227.9 1,185.0 479.0	21.1% 24.7% 30.2% 14.5%	3.247 3.221 3.958 1.842	CME CME LME LME
·	618 490	460 368	900 700	12,283 80,660	7.6 39.5	368,500 2,419,800	139,000 61,870	227.9 1,185.0	21.1% 24.7% 30.2%	3.247 3.221 3.958	CME CME LME
LME Steel Rebar	618 490 750	460 368 660	900 700 950	12,283 80,660 21,299	7.6 39.5 16.0	368,500 2,419,800 638,960	139,000 61,870 20,290	227.9 1,185.0 479.0	21.1% 24.7% 30.2% 14.5% 30.5%	3.247 3.221 3.958 1.842	CME CME LME LME
LME Steel Rebar LME China HRC	618 490 750	460 368 660	900 700 950	12,283 80,660 21,299	7.6 39.5 16.0	368,500 2,419,800 638,960	139,000 61,870 20,290	227.9 1,185.0 479.0 223.5	21.1% 24.7% 30.2% 14.5% 30.5%	3.247 3.221 3.958 1.842	CME CME LME LME
LME Steel Rebar LME China HRC Base Metals	618 490 750 806	460 368 660 594	900 700 950 950	12,283 80,660 21,299 9,248	7.6 39.5 16.0 7.4	368,500 2,419,800 638,960 277,450	139,000 61,870 20,290 6,280	227.9 1,185.0 479.0 223.5	21.1% 24.7% 30.2% 14.5% 30.5%	3.247 3.221 3.958 1.842 7.550	CME CME LME LME LME
LME Steel Rebar LME China HRC  Base Metals  Active Contract \$/mt	618 490 750 806	460 368 660 594 12 Month Low	900 700 950 950 950	12,283 80,660 21,299 9,248 Avg Weekly Volume	7.6 39.5 16.0 7.4 Avg Weekly Notional Value Million \$	368,500 2,419,800 638,960 277,450 YTD Market Volume	139,000 61,870 20,290 6,280 Open Interest	227.9 1,185.0 479.0 223.5 29-Jul-27 YTD Notional Value Million \$	21.1% 24.7% 30.2% 14.5% 30.5% 30 Day Volatility	3.247 3.221 3.958 1.842 7.550	CME CME LME LME LME Trading Exchange
LME Steel Rebar LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound	618 490 750 806 12 Month Avg 0.3376	460 368 660 594 <b>12 Month Low</b> 0.2450	900 700 950 950 950 <b>12 Month High</b> 0.4001	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8	368,500 2,419,800 638,960 277,450 YTD Market Volume 1,082,125	139,000 61,870 20,290 6,280 Open Interest 664,325	227.9 1,185.0 479.0 223.5 29-Jul-27 YTD Notional Value Million \$	21.1% 24.7% 30.2% 14.5% 30.5% 30 Day Volatility 16.3%	3.247 3.221 3.958 1.842 7.550 <b>14 Day True Range</b> 0.0006	CME CME LME LME LME Trading Exchange CME
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP	618 490 750 806 12 Month Avg 0.3376 458.94	460 368 660 594 <b>12 Month Low</b> 0.2450 290.00	900 700 950 950 950 <b>12 Month High</b> 0.4001 615.00	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071 26,321	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1	368,500 2,419,800 638,960 277,450 YTD Market Volume 1,082,125 789,625	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350	227.9 1,185.0 479.0 223.5 29-Jul-27 YTD Notional Value Million \$ 805.5 362.4	21.1% 24.7% 30.2% 14.5% 30.5% 30 Day Volatility 16.3% 27.3%	3.247 3.221 3.958 1.842 7.550 14 Day True Range 0.0006 1.726	CME CME LME LME LME Trading Exchange CME CME
LME Steel Rebar LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP	618 490 750 806 12 Month Avg 0.3376 458.94 371.10	460 368 660 594 12 Month Low 0.2450 290.00 220.00	900 700 950 950 950 <b>12 Month High</b> 0.4001 615.00 505.00	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071 26,321 10,025	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7	368,500 2,419,800 638,960 277,450 YTD Market Volume 1,082,125 789,625 300,750	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175	227.9 1,185.0 479.0 223.5 29-Jul-27 YTD Notional Value Million \$ 805.5 362.4 111.6	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499	CME CME LME LME LME CME CME CME CME CME CME
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261	460 368 660 594 12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856	900 700 950 950 950 <b>12 Month High</b> 0.4001 615.00 505.00 3,876 11,300 2,475	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402	368,500 2,419,800 638,960 277,450 YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856	227.9 1,185.0 479.0 223.5  29-Jul-27 YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2	CME CME LME LME LME CME CME CME CME CME CME LME
LME Steel Rebar LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495	460 368 660 594 12 Month Low 0.2450 290.00 220.00 2,324 7,162	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310	368,500 2,419,800 638,960 277,450 YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175 10,373,600 3,425,550	227.9 1,185.0 479.0 223.5 29-Jul-27 YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3	CME CME LME LME LME CME CME CME CME CME CME LME LME
LME Steel Rebar LME China HRC  Base Metals Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261	460 368 660 594 12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856	900 700 950 950 950 <b>12 Month High</b> 0.4001 615.00 505.00 3,876 11,300 2,475	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629	368,500 2,419,800 638,960 277,450 YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005	227.9 1,185.0 479.0 223.5  29-Jul-27 YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6	CME CME LME LME LME CME CME CME CME CME CME LME LME LME LME LME LME LME
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236	460 368 660 594 12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412	227.9 1,185.0 479.0 223.5  29-Jul-27 YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3	CME CME LME LME LME CO Trading Exchange CME CME CME LME LME LME LME LME LME LME
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Zinc	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616	460 368 660 594 12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855	12,283 80,660 21,299 9,248 Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005	227.9 1,185.0 479.0 223.5  29-Jul-27  YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0% 45.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6	CME CME LME LME LME CO Trading Exchange CME CME CME LME LME LME LME LME LME LME LME LME L
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Tin  LME Zinc  EV Metals	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616 3,506	460 368 660 594  12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473 2,927	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855 4,523	12,283 80,660 21,299 9,248  Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470 11,201,661	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629 39,278	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110 336,049,825	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005 3,373,950	227.9 1,185.0 479.0 223.5  29-Jul-27  YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6 94.3	CME CME LME LME LME  O Trading Exchange CME CME LME LME LME LME LME LME LME LME LME L
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Tin  LME Zinc  EV Metals  Active Contract \$/tonne	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616 3,506	460 368 660 594  12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473 2,927	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855 4,523	12,283 80,660 21,299 9,248  Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470 11,201,661  Avg Weekly Volume	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629 39,278  Avg Weekly Notional Value Million \$	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110 336,049,825  YTD Market Volume	139,000 61,870 20,290 6,280  Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005 3,373,950  Open Interest	227.9 1,185.0 479.0 223.5  29-Jul-27  YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355  29-Jul-27  YTD Notional Value Million \$	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0% 45.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6 94.3	CME CME LME LME LME  O Trading Exchange CME CME LME LME LME LME LME LME LME LME LME L
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Tin  LME Zinc  EV Metals	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616 3,506	460 368 660 594  12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473 2,927	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855 4,523	12,283 80,660 21,299 9,248  Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470 11,201,661	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629 39,278	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110 336,049,825	139,000 61,870 20,290 6,280 Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005 3,373,950	227.9 1,185.0 479.0 223.5  29-Jul-27  YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6 94.3	CME CME LME LME LME  O Trading Exchange CME CME LME LME LME LME LME LME LME LME LME L
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Tin  LME Zinc  EV Metals  Active Contract \$/tonne	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616 3,506	460 368 660 594  12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473 2,927	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855 4,523	12,283 80,660 21,299 9,248  Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470 11,201,661  Avg Weekly Volume	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629 39,278  Avg Weekly Notional Value Million \$	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110 336,049,825  YTD Market Volume	139,000 61,870 20,290 6,280  Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005 3,373,950  Open Interest	227.9 1,185.0 479.0 223.5  29-Jul-27  YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355  29-Jul-27  YTD Notional Value Million \$	21.1% 24.7% 30.2% 14.5% 30.5%  30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0% 45.0%  30 Day Volatility 29.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6 94.3	CME CME LME LME LME  O Trading Exchange CME CME LME LME LME LME LME LME LME LME LME L
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Tin  LME Zinc  EV Metals  Active Contract \$/tonne  Cobalt standard grade in-whs Rotterdam	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616 3,506	460 368 660 594  12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473 2,927	900 700 950 950 950 12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855 4,523	12,283 80,660 21,299 9,248  Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470 11,201,661  Avg Weekly Volume	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629 39,278  Avg Weekly Notional Value Million \$	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110 336,049,825  YTD Market Volume	139,000 61,870 20,290 6,280  Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005 3,373,950  Open Interest	227.9 1,185.0 479.0 223.5  29-Jul-22 YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355  29-Jul-22 YTD Notional Value Million \$ 473.0	21.1% 24.7% 30.2% 14.5% 30.5%  30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0% 45.0%  30 Day Volatility 29.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6 94.3  14 Day True Range 288.366	CME CME LME LME LME  O Trading Exchange CME CME LME LME LME LME LME LME LME LME LME L
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Tin  LME Zinc  EV Metals  Active Contract \$/tonne  Cobalt standard grade in-whs Rotterdam	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616 3,506 12 Month Avg 71,464	460 368 660 594  12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473 2,927  12 Month Low 52,536	900 700 950 950 950  12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855 4,523  12 Month High 88,471	12,283 80,660 21,299 9,248  Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470 11,201,661  Avg Weekly Volume 221	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629 39,278  Avg Weekly Notional Value Million \$ 15.8	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110 336,049,825  YTD Market Volume 6,619	139,000 61,870 20,290 6,280  Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005 3,373,950  Open Interest 5,344	227.9 1,185.0 479.0 223.5  29-Jul-22 YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355  29-Jul-22 YTD Notional Value Million \$ 473.0	21.1% 24.7% 30.2% 14.5% 30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0% 45.0%  30 Day Volatility 29.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6 94.3	CME CME LME LME LME  CME CME CME CME CME LME LME LME LME LME LME LME LME LME L
LME Steel Rebar  LME China HRC  Base Metals  Active Contract \$/mt  CME Aluminium Premium US \$/pound  CME Aluminium Premium EU EDP  CME Aluminium Premium EU AEP  LME Aluminium High Grade  LME Copper  LME Lead  LME Nickel  LME Tin  LME Zinc  EV Metals  Active Contract \$/tonne  Cobalt standard grade in-whs Rotterdam  Fertilizer  Spot \$/mt	618 490 750 806 12 Month Avg 0.3376 458.94 371.10 2,878 9,495 2,261 24,236 37,616 3,506 12 Month Avg 71,464	460 368 660 594  12 Month Low 0.2450 290.00 220.00 2,324 7,162 1,856 17,928 24,473 2,927  12 Month Low 52,536	900 700 950 950 950  12 Month High 0.4001 615.00 505.00 3,876 11,300 2,475 48,211 48,855 4,523  12 Month High 88,471	12,283 80,660 21,299 9,248  Avg Weekly Volume 36,071 26,321 10,025 27,957,909 14,609,471 5,043,563 1,704,475 96,470 11,201,661  Avg Weekly Volume 221  Avg Weekly Volume	7.6 39.5 16.0 7.4  Avg Weekly Notional Value Million \$ 26.8 12.1 3.7 80,462 138,712 11,402 41,310 3,629 39,278  Avg Weekly Notional Value Million \$ 15.8  Avg Weekly Notional Value Million \$	368,500 2,419,800 638,960 277,450  YTD Market Volume 1,082,125 789,625 300,750 838,737,275 438,284,125 151,306,900 51,134,244 2,894,110 336,049,825  YTD Market Volume 6,619	139,000 61,870 20,290 6,280  Open Interest 664,325 515,350 159,175 10,373,600 3,425,550 284,856 659,412 29,005 3,373,950  Open Interest 5,344  Open Interest	227.9 1,185.0 479.0 223.5  29-Jul-22 YTD Notional Value Million \$ 805.5 362.4 111.6 2,413,873 4,161,361 342,053 1,239,290 108,866 1,178,355  29-Jul-22 YTD Notional Value Million \$ 473.0	21.1% 24.7% 30.2% 14.5% 30.5%  30.5%  30 Day Volatility 16.3% 27.3% 7.9% 25.2% 33.6% 38.4% 58.7% 59.0% 45.0%  30 Day Volatility 29.0%	3.247 3.221 3.958 1.842 7.550  14 Day True Range 0.0006 1.726 0.499 50.5 173.3 35.2 798.3 416.6 94.3  14 Day True Range 288.366	CME CME LME LME LME CME CME CME CME CME CME CME CME LME LME LME LME LME LME CME CME CME CME CME CME CME CME CME C

Data Source: Baltic, CME, SGX, LME, ICE Exchanges and Bloomberg data. Spot price implies to the settlement price and index of the future product, index publishers include Baltic Freight, Fastmarkets MB, Platts, TSI, Argus, CRU, Profercy Indices. Please Note: LME volume and trades in some cases generated three reportable lots instead of one lot.

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