

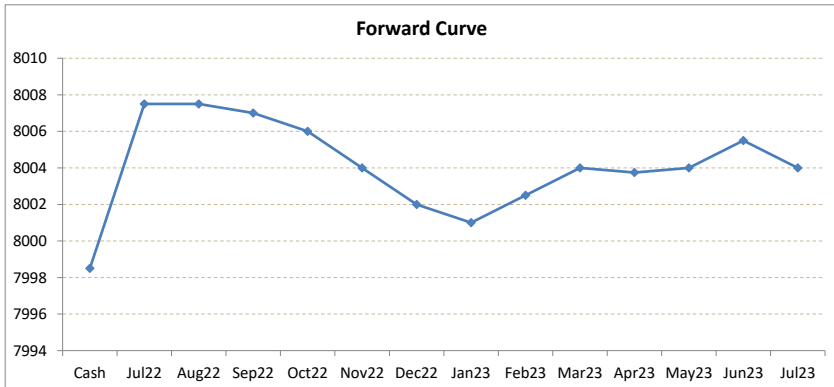
# LME Valuation - Copper

Cash - 3M: 7.50c

Date: 2022-07-04

**Cash 7998.50**  
**3M 8006.00**  
 Jul22 8007.50  
 Aug22 8007.50  
 Sep22 8007.00  
 Oct22 8006.00  
 Nov22 8004.00  
 Dec22 8002.00  
 Jan23 8001.00  
 Feb23 8002.50  
 Mar23 8004.00  
 Apr23 8003.75  
 May23 8004.00  
 Jun23 8005.50  
 Jul23 8004.00

	Cash-Jul22	Cash-Aug22	Cash-Sep22	Cash-Oct22	Cash-Nov22	Cash-Dec22	Cash-Jan23	Cash-Feb23	Cash-Mar23	Cash-Apr23	Cash-May23	Cash-Jun23
Cash	9.00c	9.00c	8.50c	7.50c	5.50c	3.50c	2.50c	4.00c	5.50c	5.25c	5.50c	7.00c
	Jul22-3M	Aug22-3M	Sep22-3M	3M-Oct22	3M-Nov22	3M-Dec22	3M-Jan23	3M-Feb23	3M-Mar23	3M-Apr23	3M-May23	3M-Jun23
3M	1.50b	1.50b	1.00b	0.00b	2.00b	4.00b	5.00b	3.50b	2.00b	2.25b	2.00b	0.50b
	Jul22-Aug22	Aug22-Sep22	Sep22-Oct22	Oct22-Nov22	Nov22-Dec22	Dec22-Jan23	Jan23-Feb23	Feb23-Mar23	Mar23-Apr23	Apr23-May23	May23-Jun23	Jun23-Jul23
3rd wed	0.00b	0.50b	1.00b	2.00b	2.00b	1.00b	1.50c	1.50c	0.25b	0.25c	1.50c	1.50b
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jul22	0.00b	0.50b	1.50b	3.50b	5.50b	6.50b	5.00b	3.50b	3.75b	3.50b	2.00b	3.50b
Aug22		0.50b	1.50b	3.50b	5.50b	6.50b	5.00b	3.50b	3.75b	3.50b	2.00b	3.50b
Sep22			1.00b	3.00b	5.00b	6.00b	4.50b	3.00b	3.25b	3.00b	1.50b	3.00b
Oct22				2.00b	4.00b	5.00b	3.50b	2.00b	2.25b	2.00b	0.50b	2.00b
Nov22					2.00b	3.00b	1.50b	0.00b	0.25b	0.00b	1.50c	0.00b
Dec22						1.00b	0.50c	2.00c	1.75c	2.00c	3.50c	2.00c
Jan23							1.50c	3.00c	2.75c	3.00c	4.50c	3.00c
Feb23								1.50c	1.25c	1.50c	3.00c	1.50c
Mar23									0.25b	0.00b	1.50c	0.00b
Apr23										0.25c	1.75c	0.25c
May23											1.50c	0.00b
Jun23												1.50b
Jul23												



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 \*\* Source: Reuters

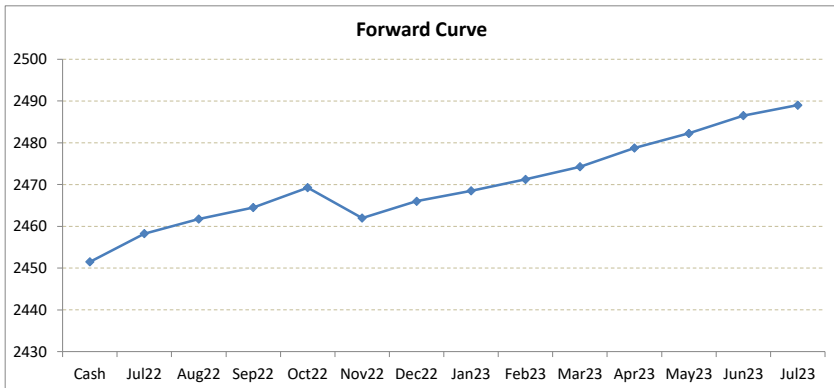
# LME Valuation - Aluminium

Cash - 3M: 12.50c

Date: 2022-07-04

**Cash 2451.50**  
**3M 2464.00**  
 Jul22 **2458.25**  
 Aug22 **2461.75**  
 Sep22 **2464.50**  
 Oct22 **2469.25**  
 Nov22 **2462.00**  
 Dec22 **2466.00**  
 Jan23 **2468.50**  
 Feb23 **2471.24**  
 Mar23 **2474.25**  
 Apr23 **2478.75**  
 May23 **2482.25**  
 Jun23 **2486.50**  
 Jul23 **2489.00**

	Cash-Jul22	Cash-Aug22	Cash-Sep22	Cash-Oct22	Cash-Nov22	Cash-Dec22	Cash-Jan23	Cash-Feb23	Cash-Mar23	Cash-Apr23	Cash-May23	Cash-Jun23
Cash	6.75c	10.25c	13.00c	17.75c	10.50c	14.50c	17.00c	19.74c	22.75c	27.25c	30.75c	35.00c
	Jul22-3M	Aug22-3M	Sep22-3M	3M-Oct22	3M-Nov22	3M-Dec22	3M-Jan23	3M-Feb23	3M-Mar23	3M-Apr23	3M-May23	3M-Jun23
3M	5.75c	2.25c	0.50b	5.25c	2.00b	2.00c	4.50c	7.24c	10.25c	14.75c	18.25c	22.50c
	Jul22-Aug22	Aug22-Sep22	Sep22-Oct22	Oct22-Nov22	Nov22-Dec22	Dec22-Jan23	Jan23-Feb23	Feb23-Mar23	Mar23-Apr23	Apr23-May23	May23-Jun23	Jun23-Jul23
3rd wed	3.50c	2.75c	4.75c	7.25b	4.00c	2.50c	2.74c	3.01c	4.50c	3.50c	4.25c	2.50c
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jul22	3.50c	6.25c	11.00c	3.75c	7.75c	10.25c	12.99c	16.00c	20.50c	24.00c	28.25c	30.75c
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Aug22	2.75c	7.50c	0.25c	4.25c	6.75c	9.49c	12.50c	17.00c	20.50c	24.75c	27.25c	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Sep22	4.75c	2.50b	1.50c	4.00c	6.74c	9.75c	14.25c	17.75c	22.00c	24.50c		
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Oct22	7.25b	3.25b	0.75b	1.99c	5.00c	9.50c	13.00c	17.25c	19.75c			
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Nov22	4.00c	6.50c	9.24c	12.25c	16.75c	20.25c	24.50c	27.00c				
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Dec22	2.50c	5.24c	8.25c	12.75c	16.25c	20.50c	23.00c					
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jan23	2.74c	5.75c	10.25c	13.75c	18.00c	20.50c						
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Feb23	3.01c	7.51c	11.01c	15.26c	17.76c							
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Mar23	4.50c	8.00c	12.25c	14.75c								
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Apr23	3.50c	7.75c	10.25c									
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
May23	4.25c	6.75c										
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jun23	2.50c											
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jul23												



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\*\* Source: Reuters

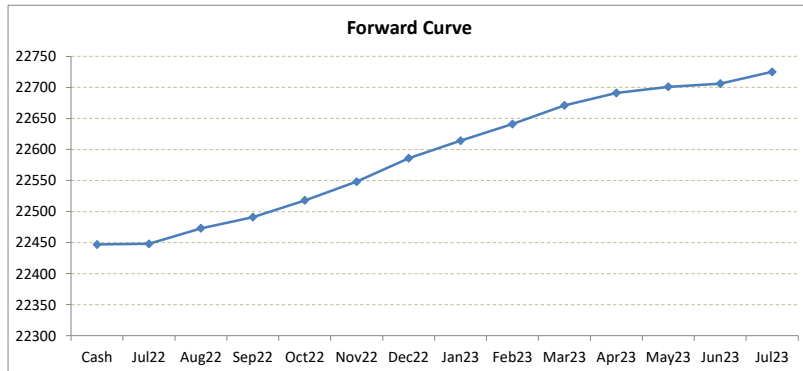
# LME Valuation - Nickel

Cash - 3M: 52.00c

Date: 2022-07-04

**Cash 22447.00**  
**3M 22499.00**  
 Jul22 22448.00  
 Aug22 22473.00  
 Sep22 22491.00  
 Oct22 22518.00  
 Nov22 22548.00  
 Dec22 22586.00  
 Jan23 22614.00  
 Feb23 22641.00  
 Mar23 22671.00  
 Apr23 22691.00  
 May23 22701.00  
 Jun23 22706.00  
 Jul23 22725.00

	Cash-Jul22	Cash-Aug22	Cash-Sep22	Cash-Oct22	Cash-Nov22	Cash-Dec22	Cash-Jan23	Cash-Feb23	Cash-Mar23	Cash-Apr23	Cash-May23	Cash-Jun23
Cash	1.00c	26.00c	44.00c	71.00c	101.00c	139.00c	167.00c	194.00c	224.00c	244.00c	254.00c	259.00c
	Jul22-3M	Aug22-3M	Sep22-3M	3M-Oct22	3M-Nov22	3M-Dec22	3M-Jan23	3M-Feb23	3M-Mar23	3M-Apr23	3M-May23	3M-Jun23
3M	51.00c	26.00c	8.00c	19.00c	49.00c	87.00c	115.00c	142.00c	172.00c	192.00c	202.00c	207.00c
	Jul22-Aug22	Aug22-Sep22	Sep22-Oct22	Oct22-Nov22	Nov22-Dec22	Dec22-Jan23	Jan23-Feb23	Feb23-Mar23	Mar23-Apr23	Apr23-May23	May23-Jun23	Jun23-Jul23
3rd wed	25.00c	18.00c	27.00c	30.00c	38.00c	28.00c	27.00c	30.00c	20.00c	10.00c	5.00c	19.00c
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jul22	25.00c	43.00c	70.00c	100.00c	138.00c	166.00c	193.00c	223.00c	243.00c	253.00c	258.00c	277.00c
	Aug22	18.00c	45.00c	75.00c	113.00c	141.00c	168.00c	198.00c	218.00c	228.00c	233.00c	252.00c
		Sep22	27.00c	57.00c	95.00c	123.00c	150.00c	180.00c	200.00c	210.00c	215.00c	234.00c
			Oct22	30.00c	68.00c	96.00c	123.00c	153.00c	173.00c	183.00c	188.00c	207.00c
				Nov22	38.00c	66.00c	93.00c	123.00c	143.00c	153.00c	158.00c	177.00c
					Dec22	28.00c	55.00c	85.00c	105.00c	115.00c	120.00c	139.00c
						Jan23	27.00c	57.00c	77.00c	87.00c	92.00c	111.00c
							Feb23	30.00c	50.00c	60.00c	65.00c	84.00c
								Mar23	20.00c	30.00c	35.00c	54.00c
									Apr23	10.00c	15.00c	34.00c
										May23	5.00c	24.00c
											Jun23	19.00c
												Jul23



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\*\* Source: Reuters

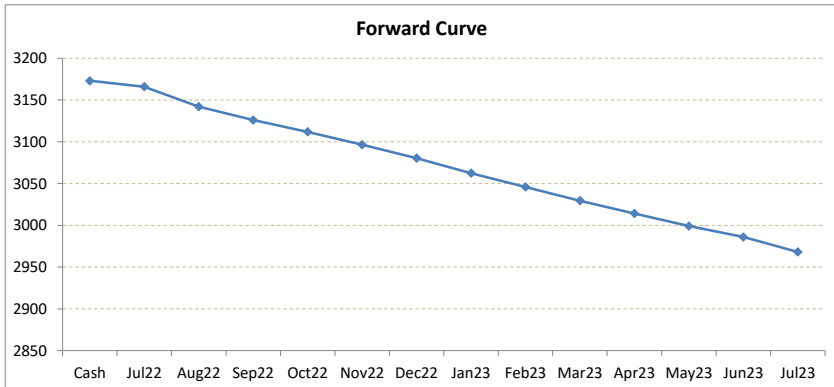
# LME Valuation - Zinc

Cash - 3M: **55.00b**

Date: **2022-07-04**

**Cash 3173.00**  
**3M 3118.00**  
 Jul22 **3166.00**  
 Aug22 **3142.00**  
 Sep22 **3126.00**  
 Oct22 **3112.00**  
 Nov22 **3096.50**  
 Dec22 **3080.50**  
 Jan23 **3062.50**  
 Feb23 **3046.00**  
 Mar23 **3029.50**  
 Apr23 **3014.25**  
 May23 **2999.00**  
 Jun23 **2986.00**  
 Jul23 **2968.25**

	Cash-Jul22	Cash-Aug22	Cash-Sep22	Cash-Oct22	Cash-Nov22	Cash-Dec22	Cash-Jan23	Cash-Feb23	Cash-Mar23	Cash-Apr23	Cash-May23	Cash-Jun23
Cash	7.00b	31.00b	47.00b	61.00b	76.50b	92.50b	110.50b	127.00b	143.50b	158.75b	174.00b	187.00b
	Jul22-3M	Aug22-3M	Sep22-3M	3M-Oct22	3M-Nov22	3M-Dec22	3M-Jan23	3M-Feb23	3M-Mar23	3M-Apr23	3M-May23	3M-Jun23
3M	48.00b	24.00b	8.00b	6.00b	21.50b	37.50b	55.50b	72.00b	88.50b	103.75b	119.00b	132.00b
	Jul22-Aug22	Aug22-Sep22	Sep22-Oct22	Oct22-Nov22	Nov22-Dec22	Dec22-Jan23	Jan23-Feb23	Feb23-Mar23	Mar23-Apr23	Apr23-May23	May23-Jun23	Jun23-Jul23
3rd wed	24.00b	16.00b	14.00b	15.50b	16.00b	18.00b	16.50b	16.50b	15.25b	15.25b	13.00b	17.75b
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jul22	24.00b	40.00b	54.00b	69.50b	85.50b	103.50b	120.00b	136.50b	151.75b	167.00b	180.00b	197.75b
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Aug22	16.00b	30.00b	45.50b	61.50b	79.50b	96.00b	112.50b	127.75b	143.00b	156.00b	173.75b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Sep22		14.00b	29.50b	45.50b	63.50b	80.00b	96.50b	111.75b	127.00b	140.00b	157.75b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Oct22			15.50b	31.50b	49.50b	66.00b	82.50b	97.75b	113.00b	126.00b	143.75b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Nov22				16.00b	34.00b	50.50b	67.00b	82.25b	97.50b	110.50b	128.25b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Dec22					18.00b	34.50b	51.00b	66.25b	81.50b	94.50b	112.25b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jan23						16.50b	33.00b	48.25b	63.50b	76.50b	94.25b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Feb23							16.50b	31.75b	47.00b	60.00b	77.75b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Mar23								15.25b	30.50b	43.50b	61.25b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Apr23									15.25b	28.25b	46.00b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
May23										13.00b	30.75b	
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jun23											13.00b	17.75b
	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jul23												17.75b



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 \*\* Source: Reuters

# LME Valuation - Lead

Cash - 3M: **3.75b**

Date: **2022-07-04**

	Cash-Jul22	Cash-Aug22	Cash-Sep22	Cash-Oct22	Cash-Nov22	Cash-Dec22	Cash-Jan23	Cash-Feb23	Cash-Mar23	Cash-Apr23	Cash-May23	Cash-Jun23
<b>Cash</b>	<b>1961.25</b>											
<b>3M</b>	<b>1957.50</b>											
Jul22	<b>1969.50</b>											
Aug22	<b>1965.50</b>											
Sep22	<b>1959.50</b>											
Oct22	<b>1955.50</b>											
Nov22	<b>1954.50</b>											
Dec22	<b>1953.50</b>											
Jan23	<b>1951.50</b>											
Feb23	<b>1949.50</b>											
Mar23	<b>1947.50</b>											
Apr23	<b>1944.50</b>											
May23	<b>1942.50</b>											
Jun23	<b>1939.50</b>											
Jul23	<b>1937.00</b>											

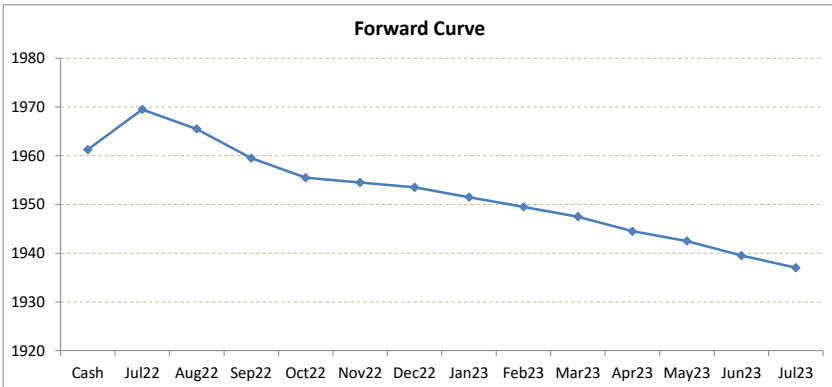
	Jul22-3M	Aug22-3M	Sep22-3M	3M-Oct22	3M-Nov22	3M-Dec22	3M-Jan23	3M-Feb23	3M-Mar23	3M-Apr23	3M-May23	3M-Jun23
Cash	8.25c	4.25c	1.75b	5.75b	6.75b	7.75b	9.75b	11.75b	13.75b	16.75b	18.75b	21.75b
3M	12.00b	8.00b	2.00b	2.00b	3.00b	4.00b	6.00b	8.00b	10.00b	13.00b	15.00b	18.00b

	Jul22-Aug22	Aug22-Sep22	Sep22-Oct22	Oct22-Nov22	Nov22-Dec22	Dec22-Jan23	Jan23-Feb23	Feb23-Mar23	Mar23-Apr23	Apr23-May23	May23-Jun23	Jun23-Jul23
3rd wed	4.00b	6.00b	4.00b	1.00b	1.00b	2.00b	2.00b	2.00b	3.00b	2.00b	3.00b	2.50b

	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Jul22	4.00b	10.00b	14.00b	15.00b	16.00b	18.00b	20.00b	22.00b	25.00b	27.00b	30.00b	32.50b
Aug22		6.00b	10.00b	11.00b	12.00b	14.00b	16.00b	18.00b	21.00b	23.00b	26.00b	28.50b
Sep22			4.00b	5.00b	6.00b	8.00b	10.00b	12.00b	15.00b	17.00b	20.00b	22.50b
Oct22				1.00b	2.00b	4.00b	6.00b	8.00b	11.00b	13.00b	16.00b	18.50b
Nov22					1.00b	3.00b	5.00b	7.00b	10.00b	12.00b	15.00b	17.50b
Dec22						2.00b	4.00b	6.00b	9.00b	11.00b	14.00b	16.50b
Jan23							2.00b	4.00b	7.00b	9.00b	12.00b	14.50b
Feb23								2.00b	5.00b	7.00b	10.00b	12.50b
Mar23									3.00b	5.00b	8.00b	10.50b
Apr23										2.00b	5.00b	7.50b
May23											3.00b	5.50b
Jun23												2.50b
Jul23												



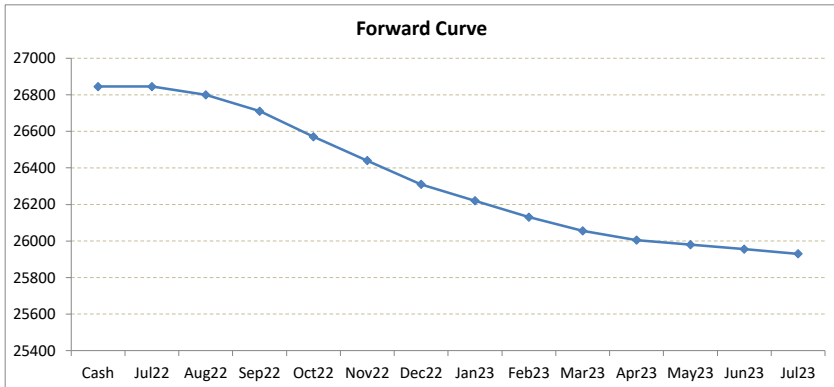
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 \*\* Source: Reuters

# LME Valuation - Tin

Cash - 3M: **245.00b**

Date: **2022-07-04**

<b>Cash</b>	<b>26845.00</b>	Cash-Jul22	Cash-Aug22	Cash-Sep22	Cash-Oct22	Cash-Nov22	Cash-Dec22	Cash-Jan23	Cash-Feb23	Cash-Mar23	Cash-Apr23	Cash-May23	Cash-Jun23
<b>3M</b>	<b>26600.00</b>	0.00b	45.00b	135.00b	275.00b	405.00b	535.00b	625.00b	715.00b	790.00b	840.00b	865.00b	890.00b
Jul22	<b>26845.00</b>												
Aug22	<b>26800.00</b>	Jul22-3M	Aug22-3M	Sep22-3M	3M-Oct22	3M-Nov22	3M-Dec22	3M-Jan23	3M-Feb23	3M-Mar23	3M-Apr23	3M-May23	3M-Jun23
Sep22	<b>26710.00</b>	245.00b	200.00b	110.00b	30.00b	160.00b	290.00b	380.00b	470.00b	545.00b	595.00b	620.00b	645.00b
Oct22	<b>26570.00</b>												
Nov22	<b>26440.00</b>	Jul22-Aug22	Aug22-Sep22	Sep22-Oct22	Oct22-Nov22	Nov22-Dec22	Dec22-Jan23	Jan23-Feb23	Feb23-Mar23	Mar23-Apr23	Apr23-May23	May23-Jun23	Jun23-Jul23
Dec22	<b>26310.00</b>	45.00b	90.00b	140.00b	130.00b	130.00b	90.00b	90.00b	75.00b	50.00b	25.00b	25.00b	25.00b
Jan23	<b>26220.00</b>												
Feb23	<b>26130.00</b>	Aug22	Sep22	Oct22	Nov22	Dec22	Jan23	Feb23	Mar23	Apr23	May23	Jun23	Jul23
Mar23	<b>26055.00</b>	45.00b	135.00b	275.00b	405.00b	535.00b	625.00b	715.00b	790.00b	840.00b	865.00b	890.00b	915.00b
Apr23	<b>26005.00</b>	Aug22	90.00b	230.00b	360.00b	490.00b	580.00b	670.00b	745.00b	795.00b	820.00b	845.00b	870.00b
May23	<b>25980.00</b>		Sep22	140.00b	270.00b	400.00b	490.00b	580.00b	655.00b	705.00b	730.00b	755.00b	780.00b
Jun23	<b>25955.00</b>			Oct22	130.00b	260.00b	350.00b	440.00b	515.00b	565.00b	590.00b	615.00b	640.00b
Jul23	<b>25930.00</b>				Nov22	130.00b	220.00b	310.00b	385.00b	435.00b	460.00b	485.00b	510.00b
						Dec22	90.00b	180.00b	255.00b	305.00b	330.00b	355.00b	380.00b
							Jan23	90.00b	165.00b	215.00b	240.00b	265.00b	290.00b
								Feb23	75.00b	125.00b	150.00b	175.00b	200.00b
									Mar23	50.00b	75.00b	100.00b	125.00b
										Apr23	25.00b	50.00b	75.00b
											May23	25.00b	50.00b
												Jun23	25.00b
													Jul23



\*본 자료는 LME에서 공시하는 Valuation을 토대로 작성된 것으로 실제 거래 시의 스프레드와는 무관합니다.  
 \*\* Source: Reuters