

Snap | 3 May 2018

Wide gap in Zinc TCs reflect market near its turning point

After some delay, the 2018 annual zinc concentrate treatment charges have been agreed down to 15% YoY. The gap from decade lows in spot charges has hit extremes and reflects expectations that mine supply will soon loosen significantly

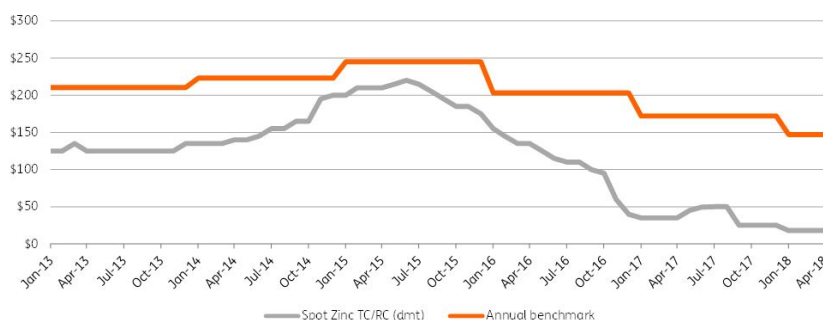


Source: Shutterstock

Wide gap between annual and spot zinc concentrate treatment charges (\$/dmt)

Treatment and refining charges (TC/RC) reflect the fee deducted from the concentrate value by the smelter. Higher TC's mean more profit for smelters and less for miners. The fees reflect the availability of raw materials (concentrate) vs smelter capacities.

Annual Zinc TC/RC's vs spot terms:



Source: Asia Metal, ING Research

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Drawn out negotiations reach a close

Nyrstar has today reported the 2018 annual benchmark for zinc concentrate charges at \$147/dmt which is a 15% decrease from last years \$172/dmt.

Negotiations have been dragged out for far longer than usual this year given the broad disagreement on this year's fundamentals. Miners have pointed to spot charges that are currently the lowest in over a decade. Indeed compared to the \$18/dmt spot charge the gap from the benchmark, even given this recent reduction, is at extremes. Also widely contested, is that zinc smelters only pay for 85% of the contained metal in concentrate, compared to 95% in copper. That status quo stems from historical recovery rates not reflective of today's smelters, but reports of the miner's attempts to change those terms have once again failed.

Compared to spot terms, and original reports of miners bidding as low as \$90/dmt, zinc smelters may have fared better than expected, although the flip side of the argument is that 2018 will very much be a year of two halves as mine supply is expected to rebound considerably. ING identifies +400kt from just new mines/expansions/restarts outside of China (before disruptions, other losses) while others are chasing high grading mine plans while prices are high.

China's own domestic output expected to rebound between 150-200kt although this will be vulnerable to any repeat health and safety limitations like was seen last year. With the low treatment charges, smelters, (especially in China that tend to buy on the spot), are suffering to turn a profit and there are wide reports of smelters bringing forward maintenance with the hopes of re-starting production when fees get higher. The closing of the SHFE-LME arb, weaker physical premia and weakening outright prices, also curbs revenue to be generated outside of the treatment charges.

This pinch on zinc smelting profits could escalate tightness in years to come as a lack of investment in new smelting capacity is expected to become the next bottleneck. Many are calling

for above 90% utilisation rates (unseen since the 90's) in order try to hit only modest deficits in years to come. Any permanent smelter closures amid the concentrate drought would be very bullish for our further dated zinc projections.

Type	Mines	Company	Capacity	2016	2017	2018	2019	2020
Restart	Lady Loretta (Mt Isa)	Glencore	160	-120	0	60	100	0
Curtailed	George Fisher (Mt Isa)	Glencore		-85	-64	0	?	?
Curtailed	Iscaryuz	Glencore		-80	-75	0	?	?
Curtailed	McArthur River Expansion	Glencore		-135	-101	0	?	?
Curtailed	Kazzinc	Glencore		-40	-30	0	?	?
New	Century Tailings	New Century	270	0	0	30	120	120
New	Gamsberg	Vednata	250	0	0	50	150	50
New	Dugald River	MMG	170	0	10	90	70	0
New	Castellanos	Trafigura	100	0	10	40	25	0
Expansion	Bisha	Nevsun	100	41	52	10	-17	-10
New	Terrafame	Terrafame	70	21	27	10	0	0
Restart	Middle Tennessee	Nyrstar	60	0	25	25	25	0
Expansion	Buenavista Zinc	Grupo Mexico	60	0	0	0	0	20
Restart	Empire/Balmat	Titan	50	0	0	10	26	18
Restart	Niaca/ Ray de Plata	Penoles	50	0	0	0	20	20
Restart	Woodlawn	Heron	40	0	0	20	10	10
New	Macorna Tailings	Shaixin	30	0	0	5	20	0
Restart	Myra Falls	Nyrstar	25	0	5	15	5	0
New	Silvertip	Coeur Mining	20	0	5	10	5	0
New	Olympias	Eldorado Gold	20	0	0	10	5	5
New	Thalanga	Red River	0	0	2	18	0	-5
Expansion	Neves Corvo	Lundin	75	8	6	-5	20	70
Restart	Campo Morado	Telson	20	0	0	12	8	0
Restart	Shalkiya (stage 1)	Shakilya Zinc	50	0	0	0	20	30
Operational Changes (YoY)								
High Grading	Antamina	Glen/Teck/BH	400	-37	177	15	30	0
Operational/H	Penasquito	Goldcorp	200	-57	44	7	50	0
Extension	Skorpion	Vedanta	150	2	3	6	9	30
Transition	Rampura-Aguchi	Vedanta	700	-172	154	-100	0	0
End of life	Phasalami	FQM	40	5	7	-22	-3	-12
Largest	Red Dog	Teck	500	0	542	-7	-35	0

Source: Company Reports, ING Research

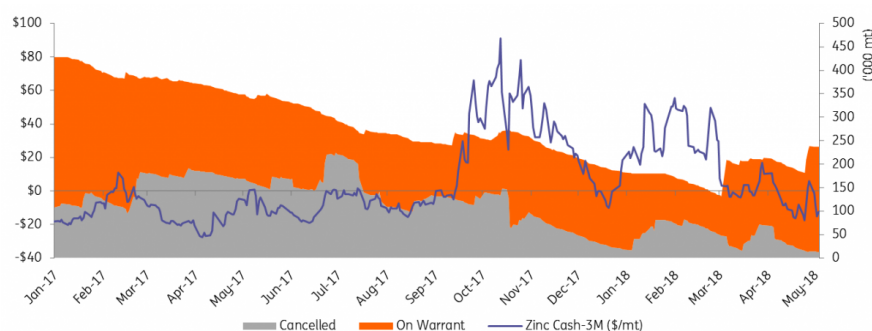
Refined looks more available than ever, but bears beware, we are still in deficit

In our last zinc note (April 12th) we were losing faith as to whether a last spur of backwardations and tightly held inventories could see zinc prices go the last leg higher before supply-demand balances began to loosen. With LME inventory now more available than ever, it looks increasingly less likely. In late April LME stocks have increased by another 58kt. For LME spreads it's always been more about the availability of metal rather than the absolute amount and seeing the amount of stock cancelled fall below 6% provides little impetus for any tightness in the curve. The Cash-3M flirted with a brief backwardation of \$6b last week but was short-lived (\$12.25c currently), and this was seemingly only on the back of sister metal lead following a pick-up in lead stock cancellations.

China's pull on zinc stocks is also looking tame, but import losses are starting to narrow now that the local market is rebounding from reports in early of April the SRB was preparing to sell stocks. Domestic stocks at social warehouses have been on the decline and now stand at 154kt, down 42% from the highs in March and premiums appear to have bottomed. We have always argued, last years LME Zinc tightness was exaggerated as financial arb traders perpetuated the conditions for more metal than necessary to flow East from West. But, now that this overhang is being digested, it could only take a few more smelters to extend maintenance to drive increased flows once more.

The timing is going to be everything as we approach the finale for zinc's fundamental rally. Stock availability via LME cancellations and the impact on spreads can quickly change on a large traders actions. The 18% increase in financial firms (non-risk reducing) LME zinc shorts since February could be headed into a bear trap if so. A sizeable refined deficit expected around 260kt this year (source ILZSG) wouldn't make such a draw unlikely. This said, the clock is ticking, evident by the wider gap for annual treatment charges from the spot. Mine supply will loosen this year, and with it, the chapter closes on the fundamental zinc story that began with large mine closures in 2015's (Century/Lisheen etc.). Any last volatility in the footnote of this rally depends wholly on whether the spreads swing before conditions loosen.

What tightness? Hardly any LME stock is cancelled and spreads in contango



Source: LME, ING Research

Author

Alissa Lefebvre

Economist

alissa.lefebvre@ing.com

Deepali Bhargava

Regional Head of Research, Asia-Pacific

Deepali.Bhargava@ing.com

Ruben Dewitte

Economist

+32495364780

ruben.dewitte@ing.com

Kinga Havasi

Economic research trainee

kinga.havasi@ing.com

Marten van Garderen

Consumer Economist, Netherlands

marten.van.garderen@ing.com

David Havrlant

Chief Economist, Czech Republic

420 770 321 486

david.havrlant@ing.com

Sander Burgers

Senior Economist, Dutch Housing

sander.burgers@ing.com

Lynn Song

Chief Economist, Greater China

lynn.song@asia.ing.com

Michiel Tukker

Senior European Rates Strategist

michiel.tukker@ing.com

Michal Rubaszek

Senior Economist, Poland

michal.rubaszek@ing.pl

This is a test author

Stefan Posea

Economist, Romania
tiberiu-stefan.posea@ing.com

Marine Leleux
Sector Strategist, Financials
marine.leleux2@ing.com

Jesse Norcross
Senior Sector Strategist, Real Estate
jesse.norcross@ing.com

Teise Stellema
Research Assistant, Energy Transition
teise.stellema@ing.com

Diederik Stadig
Sector Economist, TMT & Healthcare
diederik.stadig@ing.com

Diogo Gouveia
Sector Economist
diogo.duarte.vieira.de.gouveia@ing.com

Marine Leleux
Sector Strategist, Financials
marine.leleux2@ing.com

Ewa Manthey
Commodities Strategist
ewa.manthey@ing.com

ING Analysts

James Wilson
EM Sovereign Strategist
James.wilson@ing.com

Sophie Smith
Digital Editor
sophie.smith@ing.com

Frantisek Taborsky
EMEA FX & FI Strategist
frantisek.taborsky@ing.com

Adam Antoniak
Senior Economist, Poland

adam.antoniak@ing.pl

Min Joo Kang

Senior Economist, South Korea and Japan

min.joo.kang@asia.ing.com

Coco Zhang

ESG Research

coco.zhang@ing.com

Jan Frederik Slijkerman

Senior Sector Strategist, TMT

jan.frederik.slijkerman@ing.com

Katinka Jongkind

Senior Economist, Services and Leisure

Katinka.Jongkind@ing.com

Marina Le Blanc

Sector Strategist, Financials

Marina.Le.Blanc@ing.com

Samuel Abettan

Junior Economist

samuel.abettan@ing.com

Franziska Biehl

Senior Economist, Germany

Franziska.Marie.Biehl@ing.de

Rebecca Byrne

Senior Editor and Supervisory Analyst

rebecca.byrne@ing.com

Mirjam Bani

Sector Economist, Commercial Real Estate & Public Sector (Netherlands)

mirjam.bani@ing.com

Timothy Rahill

Credit Strategist

timothy.rahill@ing.com

Leszek Kasek

Senior Economist, Poland

leszek.kasek@ing.pl

Oleksiy Soroka, CFA

Senior High Yield Credit Strategist

oleksiy.soroka@ing.com

Antoine Bouvet

Head of European Rates Strategy

antoine.bouvet@ing.com

Jeroen van den Broek

Global Head of Sector Research

jeroen.van.den.broek@ing.com

Edse Dantuma

Senior Sector Economist, Industry and Healthcare

edse.dantuma@ing.com

Francesco Pesole

FX Strategist

francesco.pesole@ing.com

Rico Luman

Senior Sector Economist, Transport and Logistics

Rico.Luman@ing.com

Jurjen Witteveen

Sector Economist

jurjen.witteveen@ing.com

Dmitry Dolgin

Chief Economist, CIS

dmitry.dolgin@ing.de

Nicholas Mapa

Senior Economist, Philippines

nicholas.antonio.mapa@asia.ing.com

Egor Fedorov

Senior Credit Analyst

egor.fedorov@ing.com

Sebastian Franke

Consumer Economist

sebastian.franke@ing.de

Gerben Hieminga

Senior Sector Economist, Energy

gerben.hieminga@ing.com

Nadège Tillier

Head of Corporates Sector Strategy

nadege.tillier@ing.com

Charlotte de Montpellier

Senior Economist, France and Switzerland

charlotte.de.montpellier@ing.com

Laura Straeter

Behavioural Scientist

+31(0)611172684

laura.Straeter@ing.com

Valentin Tataru

Chief Economist, Romania

valentin.tataru@ing.com

James Smith

Developed Markets Economist, UK

james.smith@ing.com

Suvi Platerink Kosonen

Senior Sector Strategist, Financials

suvi.platerink-kosonen@ing.com

Thijs Geijer

Senior Sector Economist, Food & Agri

thijs.geijer@ing.com

Maurice van Sante

Senior Economist Construction & Team Lead Sectors

maurice.van.sante@ing.com

Marcel Klok

Senior Economist, Netherlands

marcel.klok@ing.com

Piotr Poplawski

Senior Economist, Poland

piotr.poplawski@ing.pl

Paolo Pizzoli

Senior Economist, Italy, Greece

paolo.pizzoli@ing.com

Marieke Blom

Chief Economist and Global Head of Research

marieke.blom@ing.com

Raoul Leering

Senior Macro Economist
raoul.leering@ing.com

Maarten Leen
Head of Global IFRS9 ME Scenarios
maarten.leen@ing.com

Maureen Schuller
Head of Financials Sector Strategy
Maureen.Schuller@ing.com

Warren Patterson
Head of Commodities Strategy
Warren.Patterson@asia.ing.com

Rafal Benecki
Chief Economist, Poland
rafal.benecki@ing.pl

Philippe Ledent
Senior Economist, Belgium, Luxembourg
philippe.ledent@ing.com

Peter Virovacz
Senior Economist, Hungary
peter.virovacz@ing.com

Inga Fechner
Senior Economist, Germany, Global Trade
inga.fechner@ing.de

Dimitry Fleming
Senior Data Analyst, Netherlands
Dimitry.Fleming@ing.com

Ciprian Dascalu
Chief Economist, Romania
+40 31 406 8990
ciprian.dascalu@ing.com

Muhammet Mercan
Chief Economist, Turkey
muhammet.mercan@ingbank.com.tr

Iris Pang
Chief Economist, Greater China
iris.pang@asia.ing.com

Sophie Freeman

Writer, Group Research
+44 20 7767 6209

Sophie.Freeman@uk.ing.com

Padhraic Garvey, CFA

Regional Head of Research, Americas

padhraic.garvey@ing.com

James Knightley

Chief International Economist, US

james.knightley@ing.com

Tim Condon

Asia Chief Economist

+65 6232-6020

Martin van Vliet

Senior Interest Rate Strategist

+31 20 563 8801

martin.van.vliet@ing.com

Karol Pogorzelski

Senior Economist, Poland

Karol.Pogorzelski@ing.pl

Carsten Brzeski

Global Head of Macro

carsten.brzeski@ing.de

Viraj Patel

Foreign Exchange Strategist

+44 20 7767 6405

viraj.patel@ing.com

Owen Thomas

Global Head of Editorial Content

+44 (0) 207 767 5331

owen.thomas@ing.com

Bert Colijn

Chief Economist, Netherlands

bert.colijn@ing.com

Peter Vanden Houte

Chief Economist, Belgium, Luxembourg, Eurozone

peter.vandenhoute@ing.com

Benjamin Schroeder

Senior Rates Strategist

benjamin.schroeder@ing.com

Chris Turner

Global Head of Markets and Regional Head of Research for UK & CEE

chris.turner@ing.com

Gustavo Rangel

Chief Economist, LATAM

+1 646 424 6464

gustavo.rangel@ing.com

Carlo Cocuzzo

Economist, Digital Finance

+44 20 7767 5306

carlo.cocuzzo@ing.com