

Shanghai Metals Market Price Assessment Methodology

SMM alumina price index

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1. Guidelines to SMM price assessment methodology

Shanghai Metals Market ("SMM") is an independent service provider that does not participate in trades. SMM is a market observer that engages buyers and sellers in the commodities market. By consulting with industry independent participants, SMM drafts the methodology, examines and revises it regularly based on the specifications and terms of trade that are generally used in the market, with equal weighting given to transactions that meet the standards. SMM reserves the right to exclude any unreliable or unrepresentative price data from its price assessment, in line with this methodology and other related Benchmark governance policies and procedures. SMM believes the processes

and procedures documented in their Methodologies represent the most accurate way of representing the underlying economic reality of the markets each Benchmark seeks to measure.

SMM price assessments refer to metals spot prices or price indices of both the Chinese and overseas markets reported by SMM on a daily basis. All SMM prices are published according to a set of defined methodologies, indicating how the prices are accessed and reported. These methodologies are published on our website www.metal.com (English) or www.smm.cn (Chinese) or for all market participants to understand and refer to.

To reflect the actual trades in the spot market, SMM will update the methodology for SMM price assessments and publish all the revisions on our website www.metal.com (English) or www.smm.cn (Chinese) 28 days ahead of the changes. For queries or suggestions on the methodology, please contact SMM customer services (please find contact information on the SMM official websites). Please read this paragraph in conjunction with the SMM methodology review and changes policy, and the SMM Complaint Policy available at www.metal.com (English) or www.smm.cn (Chinese).

This document specifies the standards and management methods for the SMM alumina spot price index assessment. These standards are formulated to establish a transparent and verifiable SMM price setting mechanism and provide market participants with an important pricing indicator.

To ensure that SMM Benchmarks and indices are constructed, maintained and operated to the highest standards, the administrator of the SMM Benchmarks – Shanghai Metal Markets (“SMM” or “the Administrator”, herein known as “SMM”) employs a robust governance framework to manage and approve new Benchmarks and also approve changes to the methodologies of existing Benchmarks.

The SMM Benchmark Management Committee (“the Committee”) is responsible for all aspects of the design, management governance and calculation of the SMM Benchmarks, and is responsible for approving all policies and procedures relating to the provision of the Benchmarks. The Committee will regularly - and no less frequently than annually - review the methodology and its evaluation and publication process. Additionally, the Committee will review the methodology and all other relevant policy and procedure documents in response to changes to market conditions or any aspect of the dynamics of the underlying market the Benchmarks seek to measure.

The Committee maintains oversight of the SMM Benchmark methodology and its compilation process, ensuring that SMM prices and indices reflect as closely

as possible the objective conditions of physical markets of relevant commodities. The Committee will immediately point out any problem it finds, and propose external consultations and modifications to the existing methodologies or processes, in order to improve the quality of prices or indices published by SMM. The Committee can only propose changes to the methodologies and processes used in future Benchmark assessments, rather than modifying the already published prices or indices.

2. Guidelines to SMM alumina price index

2.1 Definition

The SMM alumina price index is assessed and reported based on the methodology defined in this document. As a benchmark, it can be referred to by both parties of alumina spot transaction as their settlement price. The prices reflect the most tradable levels of alumina, ex-works with taxes included, between 12:00 China Standard Time ("CST") of the previous day and 11:50 CST of the date of publication. The SMM alumina price is assessed based on the spot transactions in Shanxi, Henan, Shandong, Guangxi, and Guizhou on the day of price publication and the previous day. The actual settlement prices in different regions can be adjusted based on the SMM alumina price and the market correlation between different regions.

2.2 Introduction of price assessment

SMM obtains the alumina price information in China's major production areas of Shanxi, Henan, Shandong, Guizhou and Guangxi, through a set of normalised price collection methods, and prices are finalised by weighted averaging the prices (ex-works with taxes included) in the five provinces (Shanxi, Henan, Shandong, Guizhou and Guangxi). The weighted ratios, based on the proportions of trades for alumina in the respective five provinces among overall domestic trades, are set at 5% for Shandong, 40% for Shanxi, 40% for Henan, 15% for Guangxi and 15% for Guizhou. The price collection covers directional traded prices, existing traded prices and directional market offers provided by price submitters. The SMM alumina price is the market guiding price.

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