

# Shanghai Metals Market Price Assessment Methodology —Cobalt Chloride

SMM Cobalt Sulphate Spot Prices

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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](http://www.metal.com) (English) or [www.smm.cn](http://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](http://www.metal.com) (English) or [www.smm.cn](http://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](http://www.metal.com) (English) or [www.smm.cn](http://www.smm.cn) (Chinese).*

This document specifies the standards and management methods for the SMM cobalt chloride spot price 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 cobalt chloride spot price assessment**

### **2.1 Definition**

The SMM cobalt chloride spot price is assessed and reported based on the methodology defined in this document. As a benchmark, it can be referred to by both parties of cobalt chloride spot transaction as their settlement price. The prices reflect the most tradable levels of spot cobalt chloride, delivered to factory, at the time of publication on each complete trading day. It is assessed based on transactions that happened in the nationwide market, including expenses such as transportation costs, taxes, and capital costs.

### **2.2 Introduction of price assessment**

SMM collects data information used to evaluate cobalt chloride spot prices by means of standard acquisition (that is, the collection of raw data information that complies with the SMM Data Standards Policy), from including the bid and offer of the buyer and seller that were not traded on the same day, and the actually traded price of spot transaction provided by the price submitters. The amount of each transaction that can be deemed as the standard cobalt chloride prices or trades in the price collection will be not less than 30 mt in physical volume. Data collection, assessment (calculation) and daily management of SMM cobalt chloride spot prices are conducted by SMM Operational teams (consists of 2 price analysts and a price manager).

The price published by SMM is intended to reflect the real transactable value of a commodity in a time point or period during the day. As such, where a confirmed deal is done for the same specification and loading range as confirmed bids and offers, and when all are declared to the market simultaneously, the deal will take precedence over the bids and offers. During the assessment process, we may consider other information. However, actual transactions, bids and offers will always take precedence. In the valuation process, consider further different types of enterprises, different types of raw materials, and different transaction quantities, etc., and increase the reference ratio of mainstream enterprises. When the external market environment changes greatly and the transaction volume is small, update the reference ratio of the collection transaction price valuation method, and consider adding the combined cobalt sulfate cost calculation (raw material discount factor, industry comprehensive processing fee, appropriate enterprise profits, buyer and seller bargaining power, etc.) , mainstream companies' judgments on the market's assessed prices, combined with the latest market prices and future price trends.

*Please read this paragraph with the SMM Benchmark Guidelines on Hierarchy of Data Inputs available at [www.metal.com](http://www.metal.com) (English) or [www.smm.cn](http://www.smm.cn) (Chinese).*

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**For full version of the Shanghai Metals Market DRAFT Price Assessment Methodology – Cobalt chloride, please contact [legal@smm.cn](mailto:legal@smm.cn)**