



GB/T 38597-2020

Technical Requirement for Low-volatile-organic-compound-content Coatings Product

低挥发性有机化合物含量涂料产品技术要求

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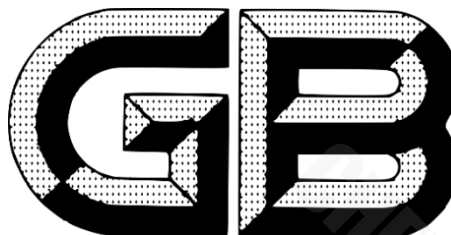
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National Standard of the People's Republic of China

GB/T 38597-2020

Technical requirement for low-volatile-organic-compound- content coatings product

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1–2009.

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard is under the jurisdiction of National Technical Committee on Coatings and Pigments of SAC (SAC/TC5).

Drafting institutions of this standard: Chinese Academy of Environmental Planning, China National Coatings Industry Association, China Petroleum and Chemical Industry Federation and CNOOC Changzhou Paint and Coatings Industry Research Institute Co., Ltd.

Main writers of this Standard: Wang Ning, Ji Junhong, Li Li, Yang Jianhai, Xue Yan, Tang Ying, Su Chunhai, Ning Miao and Wang Zhen.

Introduction

This standard is formulated in order to implement the relevant requirements of the *Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution*, the *13th Five-Year Comprehensive Work Plan for Energy Conservation and Emission Reduction*, the *13th Five-Year Work Plan for the Prevention and Control of Pollution from Volatile Organic Compounds* and the *Notice of the State Council on Issuing the Three-Year Action Plan for Defending the Blue Sky*. The principles for the preparation of this standard are as follows:

- 1) To actively draw on advanced standards and norms at home and abroad, and reflect the principles of “scientific, advanced, feasible and normative”.
- 2) To follow the principle of harmonization with mandatory national standards, remain basically consistent with the mandatory national standards in terms of classification, and ensure that its technical requirements are higher than the relevant technical requirements of the mandatory national standards.
- 3) To take into account the requirements of environmental protection and the needs of industry development, and ensure it is technologically advanced and economically reasonable.

Over the recent years, environmentally friendly coatings such as water-based coatings, high-solids coatings, solvent-free coatings, radiation-curing coatings, and powder coatings have seen a tremendous development under the guidance of the State's environmental protection work requirements and industrial policies. For example, the transformation of architectural wall coatings, container coatings, automotive original coatings and more into water-based ones has been very successful and led to widespread application of them; for powder coatings, solvent-free coatings and radiation-curing coatings, despite the limitations of coating methods, the scope of their application is still expanding; the technology and application of high solids coatings are becoming more mature. All this has effectively promoted the green transformation of China's coating industry to the use of low-volatile-organic-compound-content coatings.

The coatings are used in extremely diverse fields, and the technical development of coating products of different types and in different fields is quite different, and so are user requirements. Therefore, the concept of low-volatile-organic-compound (VOC)-content mainly refers to the relative decrease of VOC content under the existing technical levels, so as to achieve the purpose of reducing VOC at the source.

Technical Requirement for Low VOC Content Coatings Product

The VOC emissions from coating products are related to the in-tank VOC of the coating product and the coating VOC, as well as the number of times of coating repairs after the coating product is applied. The use of paints with good quality and durability leads to long intervals between repairs and less VOC emissions during the service life cycle.

This standard is not intended for the selection of coatings with low VOC content.

Each type of coating has its specific application requirements.



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