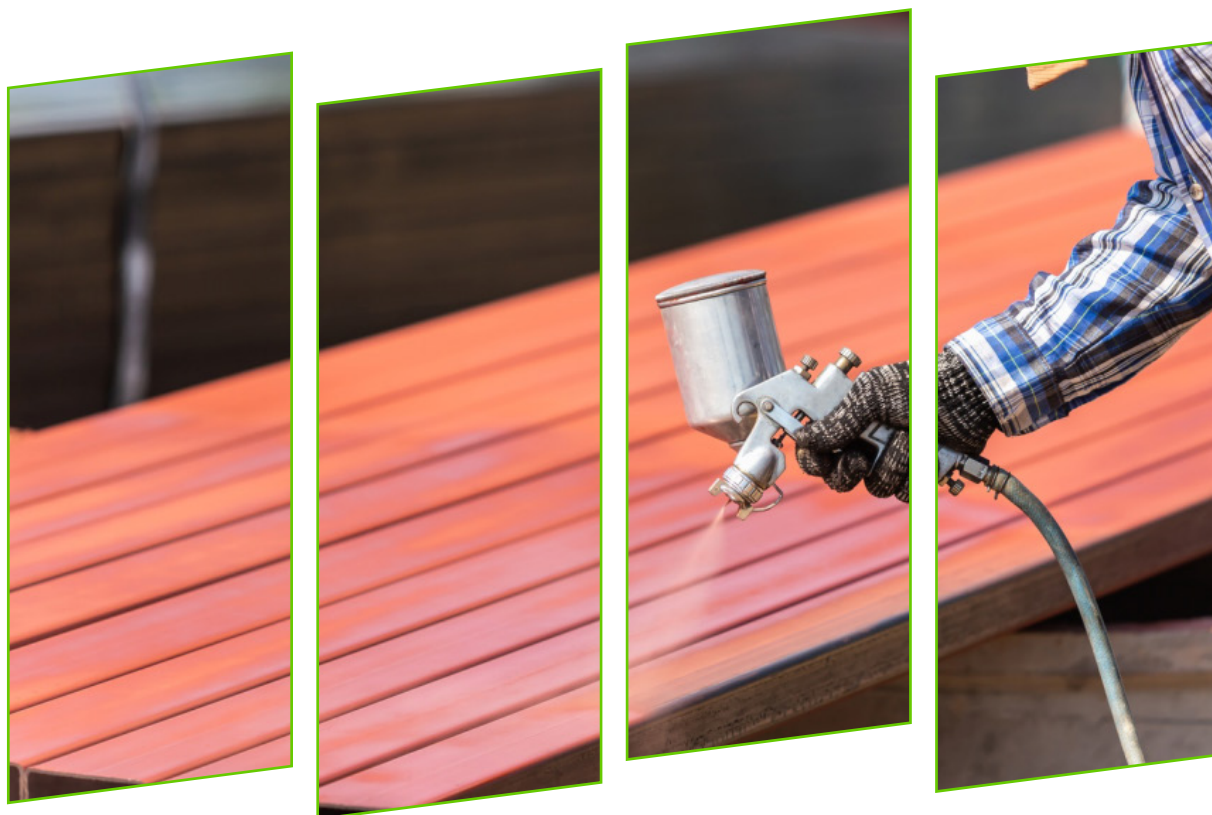




GB 30981-2020

Limit of Harmful Substances of Industrial Protective Coatings

工业防护涂料中有害物质限量

Authorities: SAMR, SAC

Release Date: Mar. 04, 2020

Implementation Date : Dec. 01, 2020

Disclaimer

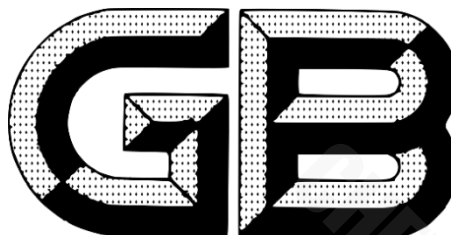
This is an unofficial document provided by ChemLinked (chemlinked.com), a platform of REACH24H Consulting Group, as an informational service to assist non-Chinese companies to better understand Asia Pacific especially China Chemical, Cosmetic, Food and Agrochemical regulatory issues.

This document should only be used as a reference and in case of any discrepancy between the English and original versions the original version shall prevail.

Nondisclosure:

You may not disclose this document to anyone else without the written permission of ChemLinked.

For further clarification and questions, you can read our [Privacy Policies](#) or contact us at chemical@chemlinked.com



National Standard of the People's Republic of China

GB 30981-2020
In place of GB 30981-2014

Limit of harmful substances of industrial protective coatings

Date of Issuance: 04-03-2020

Date of Implementation: 01-12-2020

Issued by:

State Administration for Market Regulation of the People's Republic of China
and

Standardization Administration of the People's Republic of China

Foreword

All technical contents in this standard are mandatory.

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

This standard is developed to substitute GB 30981-2014 *Limit of harmful substances of anticorrosion coatings for construction steel structure*. Compared with GB 30981-2014, the main technical changes except editing changes are as follows:

- Modified the scope of the standard (Chapter 1, and Chapter 1 of the 2014 edition);
- Deleted the normative reference "GB 24408-2009"; added the normative references "GB/T 6682-2008, GB/T 9758.5-1988, GB/T 9760-1988, GB/T 23985-2009, GB/T 23986-2009, GB/T 23990-2009, GB/T 23992-2009, GB/T 30647-2014, GB/T 34675-2017, GB/T 34682-2017, GB/T 36488-2018" (Chapter 2, and Chapter 2 of the 2014 edition);
- Modified the definition of "volatile organic compound (VOC)"; added the definitions of the terms "engineering machinery", "agricultural machinery", "port machinery", "chemical machinery", "container", "package", "profiles", "electrical and electronic product", "pre-coated coil", "shop primer", "effect pigment" and "application condition"; deleted the terms and definitions of "building steel structure", "building steel structure anti-corrosion coatings" (Chapter 3, and Chapter 3 of the 2014 edition);
- Modified product classification (Chapter 4, and Chapter 4 of the 2014 edition);
- Modified the "coating type" of solvent-based coatings; modified the limit of VOC content (Table 2, and Table 1 of the 2014 edition);

ChemLinked Team, REACH24H Consulting Group | <http://chemical.chemlinked.com>

14F, #3 Bldg., Haichuang Technology Center, No. 1288 Wenyi West Road, Hangzhou, China. PC: 311121

Tel: +86 571 8700 7591 | Fax: +86 571 8700 7566 | Email: chemical@chemlinked.com

Limit of harmful substances of industrial protective coatings

- Added the limit values of VOC content of water-based coatings, solvent-free coatings and radiation curable coatings (Table 1, Table 3 and Table 4);
- Added the “total content of toluene and xylene (including ethylbenzene)” and “polycyclic aromatic hydrocarbon content” items and indicators (Table 5);
- The “Glycol ether (glycol ether methyl ether, ethylene glycol ether) total content” was changed to “total content of glycol ether and ether ester”; modified “benzene content” item indicator; modified the controlled varieties in the “total content of halogenated hydrocarbons” and the “total content of glycol ethers and ether esters” (Table 5, and Table 2 of the 2014 edition);
- The “Harmful heavy metal content” requirements, previously “recommendatory”, become “mandatory” ones (Table 5, and 5.3 of the 2014 edition);
- Modified the test methods for “VOC content”, “benzene content”, “halo hydrocarbon total content”, “methanol content”, “glycol ether and ether ester content” and “heavy metal content” (6.2, and the 2014 edition 6.2);
- Added the test method for “total content of toluene and xylene (including ethylbenzene)” and “polycyclic aromatic hydrocarbon content” (6.2);
- Added the section “Implementation of Standard” (Chapter 9).

This Standard was proposed by and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China.

The previous versions replaced by this standard are as follows:

-- GB 30981-2014.

Limit of harmful substances of industrial protective coatings

1. Scope

This standard specifies the product classifications, requirements, test methods, inspection rules, package marks, implementation of standard of the permissible limits of the substances that are harmful to humans and the environment in industrial protective coatings.

This standard applies to a variety of industrial protective coatings (Except marine coatings) used for protecting the surface of metal, concrete and plastics, except putty.

This standard does not apply to aerospace coatings, coatings for nuclear power purpose, or coatings for military equipment and facility.

2. Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 1725–2007 Paints, varnishes and plastics – Determination of non-volatile-matter content

GB/T 3186 Paints, varnishes and raw materials for paints and varnishes – Sampling

GB/T 6682–2008 Water for analytical laboratory use – Specification and test methods



Free



Free trial



Standard



Corporate



Special

SUBSCRIBE TO CHEMLINKED NOW

REMOVE CHEMICAL REGULATORY BARRIERS EXPEDITE ASIA MARKET ACCESS

- In-time regulatory information and market access requirements
- Supported by local and experienced technically adept technical team
- Strategic partnerships with competent authorities and industrial associations worldwide
- Customized consulting service for complete compliance solutions.

OUR SERVICES



Information

News, Alerts



Knowledge

Pedia-articles,
Regulatory Analysis, Market Insights, Reports



Databases

Regulatory Database,
English Translations, Lists/Inventories, Q&A



Training

Webinars, Online courses, Offline events



Solutions

Translation, Consultancy, Advertising,
Tailored Regulatory Report,
Business-matching services,
Tailored online and offline training