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GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB/T 20708-2019

Replacing GB/T 20708-2006

**Limit and determination of parts of harmful
substances in textile dyeing and finishing auxiliaries**

纺织染整助剂产品中部分有害物质的限量及测定

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**Standardization Administration of the People's Republic of
China.**

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Limit and determination of parts of harmful substances in textile dyeing and finishing auxiliaries

WARNING -- User of this Standard shall have practical experience in laboratory work. This Standard does not address all security issues. It is the responsibility of the user to take appropriate safety and health measures and to ensure compliance with the relevant national regulations.

1 Scope

This Standard specifies limit requirements, test methods, inspection rules, test report for parts of harmful substances in textile dyeing and finishing auxiliaries (see Annex A).

This Standard is applicable to various textile dyeing and finishing auxiliaries used for textile products in the dyeing and finishing process.

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 601, *Chemical Reagent - Preparations of Standard Volumetric Solutions*

GB/T 603, *Chemical reagent - Preparations of reagent solutions for use in test methods*

GB/T 6682-2008, *Water for analytical laboratory use - Specification and test methods*

GB/T 8170-2008, *Rules of rounding off for numerical values & expression and judgement of limiting values*

GB 19601, *Limit and determination of 23 harmful aromatic amines in dye products*

GB/T 23972, *Determination of alkylphenols and alkylphenol polyethoxylates in textile dyeing and finishing auxiliaries - LC/MS method*

		P-chloroaniline	≤30	
		2,4-diaminoanisole	≤30	
		4,4'-diaminodiphenylmethane	≤30	
		3,3'-dichlorobenzidine	≤30	
		3,3'-dimethoxybenzidine	≤30	
		3,3'-dimethylbenzidine	≤30	
		3,3'-dimethyl-4,4'-diaminodiphenylmethane	≤30	
		2-methoxy-5-methylaniline	≤30	
		3,3'-dichloro-4,4'-diaminodiphenylmethane	≤30	
		4,4'-diaminodiphenyl ether	≤30	
		4,4'-diaminodiphenyl sulfide	≤30	
		O-toluidine	≤30	
		2,4-diaminotoluene	≤30	
		2,4,5-trimethylaniline	≤30	
		2-amino-4-nitrotoluene	≤30	
		O-aminoazotoluene	≤30	
		O-methoxyaniline (o-aminoanisole)	≤30	
		2,4-dimethylaniline	≤30	
		2,6-dimethylaniline	≤30	
		4-aminoazobenzene	≤30	
2	Heavy metal elements ^a	Arsenic	≤10	
		Cadmium	≤5	
		Cobalt	≤50	
		Chromium	≤50	
		Copper	≤125	
		HG	≤4	
		Nickel	≤50	
		Lead	≤10	
		Antimony	≤125	
		Hexavalent chromium	≤25	
3	Formaldehyde		≤750	
4	Alkylphenol ethoxylate (APEOs)	Octylphenol (OP)	≤100 ^b	≤1000 ^c
		Nonylphenol (NP)		
		Octylphenol ethoxylate (OPEO)	--	
		Nonylphenol ethoxylate (NPEO)	--	
5	Phthalate	Dibutyl phthalate (DBP)	≤1000	
		Butyl phthalate (BBP)		
		Di(2-ethylhexyl) phthalate (DEHP)		
		Di-n-octyl phthalate (DNOP)		
		Diisodecyl phthalate (DINP)		
		Diisodecyl phthalate (DIDP)		

Determination of alkylphenol ethoxylate is performed according to GB/T 23972.

4.6 Determination of phthalate

Determination of phthalate is performed according to GB/T 24168.

4.7 Determination of perfluorinated compound

Determination of perfluorinated compound is performed according to GB/T 29493.2.

4.8 Determination of organotin compound

Determination of organotin compound is performed according to GB/T 29493.3.

4.9 Determination of chlorophenol content

Determination of chlorophenol content is performed according to GB/T 24166.

5 Inspection rules

5.1 Determination rules

Products shall be subject to all-item inspection according to this Standard by quality inspection department. Compare inspection results and requirements specified in this Standard. When they all meet requirements of this Standard, this product shall be accepted.

5.2 Re-inspection

Should one indicator in the inspection results fail to meet this Standard, it shall re-sample from the packaging of double quantity for inspection. Even when one indicator in the re-inspection results fails to meet requirements of this Standard, the whole batch of products shall be rejected.

6 Test report

The test report shall at least provide the following information:

- a) sample description;
- b) standard used (reference to this Standard);
- c) test results and detection limit;
- d) instrument names and models used;

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