



**BUREAU  
VERITAS**

## China Mandatory Standards of Furniture GB 18584-2024 and GB 28007-2024 Published

China National standardization administration published 18 mandatory standards in its 12<sup>th</sup> announcement of 2024, including GB 18584-2024 Limit of harmful substances of furniture, and GB 28007-2024 Technical specifications for the safety of infants' and children's furniture. They integrated and superseded some furniture related standards; this newsletter lists out brief comparison of the new and current standards.

1. GB 18584-2024 Limit of harmful substances of furniture, replacing GB 18584-2001 & GB 28481-2012, will be implemented from 1 July 2025.

GB 18584-2024 <i>Limit of harmful substances of furniture</i>	GB 18584-2001 <i>Indoor decorating and refurbishing materials – Limit of harmful substances of wood base furniture</i>	GB 28481-2012 <i>Limit of harmful substances of plastic furniture</i>
<b>Foreword</b>		
This standard is the first revision that integrates and supersedes GB 18584-2001, GB 28481-2012.	Provided foreword, this standard is published for the first time.	Provided foreword, this standard is published for the first time.
<b>Scope</b>		
It applies to various furniture.	It applied to wooden furniture for indoor use.	It applied to plastic furniture for public place, indoor and outdoor use.
<b>Normative references</b>		
Provided Normative references.	Provided Normative references.	Provided Normative references.
<b>Terms and definitions</b>		
Cited GB/T 28202, GB 28007, revised and added more terms and definitions	Provided terms and definitions.	Provided terms and definitions.
<b>Requirements and test methods</b>		
Formaldehyde, benzene, toluene, xylene and total volatile organic compounds (TVOC). Applied to furniture for indoor use. Determined by chamber method according to annex D, E. <ul style="list-style-type: none"> <li>• Formaldehyde <math>\leq 0.08 \text{ mg/m}^3</math></li> <li>• Benzene <math>\leq 0.06 \text{ mg/m}^3</math></li> <li>• Toluene <math>\leq 0.15 \text{ mg/m}^3</math></li> <li>• Xylene (sum of ortho, meta, para isomers) <math>\leq 0.20 \text{ mg/m}^3</math></li> <li>• TVOC <math>\leq 0.50 \text{ mg/m}^3</math></li> </ul>	Release of formaldehyde. Determined by desiccator method according to section 5.1. <ul style="list-style-type: none"> <li>• Formaldehyde <math>\leq 1.5 \text{ mg/L}</math></li> </ul>	—
Migratable elements. Applied to coating. Determined by GB 6675.4-2014. <ul style="list-style-type: none"> <li>• Antimony <math>\leq 60 \text{ mg/kg}</math>, Arsenic <math>\leq 25 \text{ mg/kg}</math>, Barium <math>\leq 1000 \text{ mg/kg}</math>, Cadmium <math>\leq 75 \text{ mg/kg}</math>, Chromium <math>\leq 60 \text{ mg/kg}</math>, Lead <math>\leq 90 \text{ mg/kg}</math>, Mercury <math>\leq 60 \text{ mg/kg}</math>, Selenium <math>\leq 500 \text{ mg/kg}</math>.</li> </ul>	Soluble heavy metal. Applied to colour paint. Determined according to section 5.2. <ul style="list-style-type: none"> <li>• Cadmium <math>\leq 75 \text{ mg/kg}</math>, Chromium <math>\leq 60 \text{ mg/kg}</math>, Lead <math>\leq 90 \text{ mg/kg}</math>, Mercury <math>\leq 60 \text{ mg/kg}</math>.</li> </ul>	Soluble heavy metal. Applied to plastic furniture. Determined by annex C of GB 6675-2003. <ul style="list-style-type: none"> <li>• Cadmium <math>\leq 75 \text{ mg/kg}</math>, Chromium <math>\leq 60 \text{ mg/kg}</math>, Lead <math>\leq 90 \text{ mg/kg}</math>, Mercury <math>\leq 60 \text{ mg/kg}</math>.</li> </ul>
Phthalates. Applied to plastic components on infants' and children's furniture. Determined by GB/T 40906. <ul style="list-style-type: none"> <li>• Sum of DBP, BBP, DEHP <math>\leq 0.1 \%</math></li> <li>• Sum of DNOP, DINP, DIDP <math>\leq 0.1 \%</math></li> </ul>	—	Phthalate. Applied to plastic furniture. Determined by GB/T 22048-2008. <ul style="list-style-type: none"> <li>• Each of DBP, BBP, DEHP, DNOP, DINP, DIDP <math>\leq 0.1 \%</math></li> </ul>
Polycyclic aromatic hydrocarbons (PAHs). Applied to plastic components on infants' and children's furniture, plastic furniture. Determined by GB/T 40971. <ul style="list-style-type: none"> <li>• Benzo (α) anthracene <math>\leq 1 \text{ mg/kg}</math></li> <li>• Sum of 18 PAHs <math>\leq 10 \text{ mg/kg}</math></li> </ul>	—	PAHs. Applied to plastic furniture. Determined by method one of SN/T 1877.2-2007. <ul style="list-style-type: none"> <li>• Benzo (α) anthracene <math>\leq 1 \text{ mg/kg}</math></li> <li>• Sum of 16 PAHs <math>\leq 10 \text{ mg/kg}</math></li> </ul>
Decomposable aromatic amines colourants. Determined by GB/T 40904. <ul style="list-style-type: none"> <li>• Textile, artificial leather <math>\leq 20 \text{ mg/kg}</math></li> <li>• Leather <math>\leq 30 \text{ mg/kg}</math></li> </ul>	—	—

GB 18584-2024 <i>Limit of harmful substances of furniture</i>	GB 18584-2001 <i>Indoor decorating and refurbishing materials – Limit of harmful substances of wood base furniture</i>	GB 28481-2012 <i>Limit of harmful substances of plastic furniture</i>
Radionuclide, including radium-226, thorium-232, potassium-40. Applied to natural stone component. Determined by GB/T 38724. • $I_{Ra} \leq 1.0$ • $I_L \leq 1.3$	—	—
Dimethyl fumarate. Applied to upholstered furniture shipped by sea. $\leq 0.01$ mg/kg	—	—
Polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE). Applied to furniture for public places and been claimed with flame resistant property. Determined by GB/T 40908. $\leq 1000$ mg/kg	—	PBB, PBDE. Applied to furniture for public places and been claimed with flame resistant property. Determined by SN/T 2005.2-2005. $\leq 1000$ mg/kg
Compliance criteria		
Each applicable parameter does not exceed the limit value specified in standard.	Stipulated requirements of inspection rules, test report. The product is considered as compliant if test results of all test parameters meet the limit values. The product is considered non-compliant if any parameter does not meet the limit value.	Stipulated requirements of inspection rules, test report. The product is considered as compliant if test results of all test parameters meet the limit values. The product is considered non-compliant if any parameter does not meet the limit value.
—	—	Stipulates requirements of labelling.
Annex A Substance list of phthalates.	—	—
Annex B Substance list of PAHs.	—	—
Annex C Substance list of aromatic amines.	—	—
Annex D Determination of formaldehyde, benzene, toluene, xylene and TVOC in upholstered furniture.	—	—
Annex E Determination of formaldehyde, benzene, toluene, xylene and TVOC in wooden and other furniture.	—	—
Annex F Measurement of exposed surface area of upholstered furniture.	—	—
Annex G Measurement of volume of wooden and other furniture	—	—
Note: “—” means have no such requirement.		

2. GB 28007-2024 Technical specifications for the safety of infants' and children's furniture, replacing GB 28007-2011, GB 22793.1-2008 & partially GB 24430.1-2009, will be implemented from 1 January 2026.

GB 28007-2024 <i>Technical specifications for the safety of infants' and children's furniture</i>	GB 28007-2011 <i>General technical requirements of children's furniture</i>	GB 22793.1-2008 <i>Furniture-Children's high chair - Part 1: Safety requirements</i>	GB 24430.1-2009 <i>Bunk beds for domestic use - Safety - Part 1: Requirements</i>
This standard is the first revision that integrates and supersedes GB 28007-2011, GB 22793.1-2008, GB 24430.1-2009 (only replace the requirements of children's products).	Provided foreword, this standard is published for the first time.	Provided foreword, this standard is published for the first time.	Provided foreword, this standard is published for the first time.
Scope			
It applies to furniture for infants and children from 0 to 14 years of age.	It applied to furniture for children from 3 to 14 years of age.	It applied to children's highchair (6 months to 3 years of age).	It applied to domestic bunk bed, and single bed with bed base height equal and larger than 800 mm.
Normative references			
Provided normative references.	Provided normative references.	Provided normative references.	Provided normative references.
Terms and definitions			
Cited GB/T 28202, revised and added more terms and definitions	Provided terms and definitions.	Provided terms and definitions.	Provided terms and definitions.
General safety requirements			
Stipulates material requirements.	—	Stipulated material requirements.	Stipulated material requirements.
—	Stipulated general requirements (size deviation, appearance, physical and chemical properties, moisture rate of wood).	—	—
• Stipulates structural requirements. • Connection of components can be removed and unscrewed.	• Structural safety. • Edges and tips. • Protrusions.	—	—

<ul style="list-style-type: none"> <li>Edges, tips and contact corners.</li> <li>Protrusions.</li> <li>Holes, slits and openings.</li> <li>Shear and squeeze points.</li> <li>Structure safety, suffocation hazards</li> <li>Drawer Outstop</li> <li>Castor</li> <li>Height adjustment mechanisms</li> <li>Glass components.</li> <li>Stability.</li> </ul>	<ul style="list-style-type: none"> <li>Holes and slits.</li> <li>Foldable structure.</li> <li>Flap doors, flap board.</li> <li>Furniture with enclosure.</li> <li>Mechanical properties</li> <li>Other requirements, such as glass components, drawer outstop.</li> </ul>		
Stipulates flammability requirement	Stipulated flammability requirement	—	—
Stipulates electrical safety.	—	—	—
<ul style="list-style-type: none"> <li>Shall comply with GB 4706.1.</li> </ul>			
<ul style="list-style-type: none"> <li>Stipulates harmful substances.</li> <li>Shall comply with GB 18584-2024.</li> </ul>	<ul style="list-style-type: none"> <li>Stipulated harmful substances.</li> <li>Release of formaldehyde of wooden components shall comply with GB 18580, except specified by other product standards.</li> <li>Migratable elements of surface coating. Antimony <math>\leq 60</math> mg/kg, Arsenic <math>\leq 25</math> mg/kg, Barium <math>\leq 1000</math> mg/kg, Cadmium <math>\leq 75</math> mg/kg, Chromium <math>\leq 60</math> mg/kg, Lead <math>\leq 90</math> mg/kg, Mercury <math>\leq 60</math> mg/kg, Selenium <math>\leq 500</math> mg/kg.</li> <li>Free formaldehyde of textile and leather <math>\leq 30</math> mg/kg.</li> <li>Decomposable aromatic amines colourants of textile and leather, prohibited.</li> <li>Phthalates sum of DBP, BBP, DEHP, DNOP, DINP, DIDP <math>\leq 0.1</math> %</li> </ul>	—	—
Stipulates warning label requirements.	Stipulated warning label requirements.	Stipulated warning label requirements.	Stipulated warning in instruction
Safety requirements of specific products			
<ul style="list-style-type: none"> <li>Stipulates safety requirements of children's highchairs</li> <li>Holes, slits and openings.</li> <li>Movable components.</li> <li>Locking device of foldable products.</li> <li>Restraint system.</li> <li>Side protection.</li> <li>Backrest.</li> <li>Adjustable backrest.</li> <li>Front edge of seat.</li> <li>Casters and wheels.</li> <li>Structural integrity</li> <li>Durability of locking device.</li> <li>Stability.</li> <li>Warning label.</li> </ul>	—	<ul style="list-style-type: none"> <li>Structure.</li> <li>Holes, slits and openings, protrusions, edges, tips and contact corners.</li> <li>Shear and squeeze points.</li> <li>Fasteners.</li> <li>Shoulder, crotch, waist straps.</li> <li>Structural integrity</li> <li>Stability.</li> <li>Casters.</li> <li>Seat back.</li> </ul>	—
<ul style="list-style-type: none"> <li>Stipulates safety requirements of bunk beds</li> <li>General requirements.</li> <li>Perpendicular protrusions of upper bed</li> </ul>	—	—	<ul style="list-style-type: none"> <li>Structure.</li> <li>Holes.</li> <li>Safety barrier of upper bed</li> <li>Tolerance of children's bunk</li> </ul>

<ul style="list-style-type: none"> <li>Holes, slits and openings.</li> <li>Bed base.</li> <li>Safety barrier.</li> <li>Access of the upper bed.</li> <li>Strength and durability of structure and fasteners</li> <li>Stability.</li> <li>Tightness of upper and lower beds.</li> <li>Warning label.</li> </ul>			<ul style="list-style-type: none"> <li>bed barriers and gaps</li> <li>Bed base.</li> <li>Ladder.</li> <li>Strength of frames and fasteners</li> </ul>
<p>Stipulates safety requirements of children's cots and foldable cots</p> <ul style="list-style-type: none"> <li>Stability.</li> <li>Internal holes, gaps and openings.</li> <li>Head injury by pinching.</li> <li>Shear and squeeze points.</li> <li>Protrusions.</li> <li>Locking device.</li> <li>Bed base.</li> <li>Side and end of product.</li> <li>Edge.</li> <li>Stability of final state.</li> <li>Dimension of mattress.</li> <li>Warning label.</li> </ul>	—	—	—
<p>Stipulates safety requirements of cribs</p> <ul style="list-style-type: none"> <li>Inclination of bed base.</li> <li>Holes, slits and openings.</li> <li>Movable components.</li> <li>Product movement.</li> <li>Falling proof.</li> <li>Asphyxiation proof.</li> <li>Structural safety of bedside sleeper.</li> <li>Safety of suspending cribs.</li> <li>Warning label.</li> </ul>	—	—	—
<p>Stipulates requirements of upholstered furniture.</p>	—	—	—
—	<p>Stipulated requirements of inspection rules.</p> <ul style="list-style-type: none"> <li>The product is considered as compliance if test results of all test parameters meet the requirements. The product is considered non-compliance if can not meet the requirements.</li> </ul>	—	—
<p>Requirements of labeling, instruction for use differ by product categories</p>	<p>Stipulates requirements of labelling, instructions for use, packaging, transport and storage.</p>	<p>Stipulates requirements of labelling, instructions for use, packaging.</p>	<p>Stipulates requirements of labelling, user guide.</p>
—	<p>Annex A Test of Mechanical properties of children's furniture.</p>	—	—
—	<p>Annex B Equilibrium Moisture Content in wood in various regions across China.</p>	—	—
<p>Note: "—" means have no such requirement.</p>			

## **How Does this Impact You? Contact Us to Discuss**

Any comments and/or questions please contact your local customer service representative or email to:  
China – Shanghai: [contact-cn@bureauveritas.com](mailto:contact-cn@bureauveritas.com)

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