

Australian Standard[®]

Geotextiles—Glossary of terms

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The following interests are represented on Committee CE/20:

Association of Consulting Engineers, Australia
Australian Geomechanics Society
Australian Polyolefin Textiles Association
Australian Wool Testing Authority
CSIRO, Division of Wool Technology
Metal Trades Industry Association of Australia
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PREFACE

This Standard was prepared by the Standards Australia Committee on Geotextiles.

In the preparation of the Standard, reference was made to ASTM and draft ISO test procedures.

This Standard is being issued simultaneously with a series of Standards dealing with methods of sampling and testing geotextiles.

The Standard lists alphabetically the terms used in the geotextile industry, but it is not exhaustive.

The format of the glossary is as follows:

- (a) Preferred terms accompanied by definitions, are printed in bold type.
- (b) Where the meanings of terms relating to a common subject are under an appropriate headword, the individual words are cross-referenced to that headword. For example, 'calender bonding' is cross-referenced to 'bonding' under which headword the definition appears.
- (c) Non-preferred terms are printed in light type, and are cross-referred to the appropriate preferred words.

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STANDARDS AUSTRALIA

Australian Standard
Geotextiles—Glossary of terms

| Term | Definition |
|----------------------------------|---|
| abnormal test result | A result which lies more than three standard deviations from the mean. |
| abrasion | The wearing away of any part of a geotextile material by the action of friction or rubbing. |
| abrasion resistance | The ability of a geotextile material to resist wear due to friction or rubbing. |
| absorption | A mechanism by which a fluid is assimilated by or taken up into a geotextile or its constituents or both. |
| accelerated degradation | <i>See</i> degradation. |
| actinic degradation | <i>See</i> degradation. |
| anisotropic | Having directionally variable physical properties. |
| antioxidant | A substance designed to retard or prevent oxidative degradation of a geotextile. |
| apparent opening size | <i>See</i> opening size. |
| arching | <i>See</i> bridging layer. |
| basecloth | A textile fabric, normally woven, which may be included in a needle felt to provide dimensional stability and strength and in some cases to facilitate the needle-punching operation. |
| batch | A defined quantity of a geotextile manufactured, produced, or stored under conditions presumed to be uniform, or a quantity purchased or offered for sale or for sampling at the one time. (<i>See also</i> order and sample.) |
| batt or batting (US) webb | Single or multiple sheets of fibre used in non-woven fabric production. |
| bicomponent fibre | <i>See</i> fibre. |
| binder | An additive used to bind fibres together. A binder may be of a chemical, adhesive, resinous, or fibrous nature. |
| binder content | The mass of binder added as a percentage of the total mass of the geotextile. |
| binder fibre | <i>See</i> fibre. |
| blinding | The condition where soil particles or other substances block the openings or pores on the surface of a geotextile, thereby reducing its hydraulic properties. (<i>See also</i> clogging.) |
| bonded fibre fabric | <i>See</i> fabric. |
| bonding | The process by means of which one or more sheets, webs, or batts of fibre are held together. Bonding may be accomplished by mechanical, chemical, thermal, or solvent means, or combinations thereof. |
| calender bonding | A method of making a thermally bonded non-woven fabric in which calender rollers are used to apply heat and pressure to a fibre web, thus causing bonding by the softening or melting of the heat-sensitive material. |
| chemical bonding | A process which uses suitable chemical products to achieve bonding. |
| mechanical bonding | A process which uses suitable mechanical methods to achieve bonding. |
| needle bonding | A mechanical process which uses barbed needles mounted in a needle loom to entangle the fibres of a web or batt by reorientation of some of the fibres within its structure. |
| needle felting | |
| needle punching | |
| needling | |