

Technical Bulletin DVS 1618

Elastic Thick Layer Adhesives Used in Rail Vehicle Applications

DVS, Technical Committee, Working Group "Welding in railway vehicle manufacturing"

This publication has been drawn up by a group of experienced specialists working in an honorary capacity and its consideration as an important source of information is recommended. The user should always check to what extent the contents are applicable to his particular case and whether the version on hand is still valid. No liability can be accepted by the Deutscher Verband für Schweißen und verwandte Verfahren e.V., and those participating in the drawing up of the document

Voransicht des Regelwerkes

Content:

1.	Introduction	3
2.	Scope and Application	3
2.1.	Scope (Definition).....	3
2.2.	Application Domains	3
3.	Basics.....	3
3.1.	Adhesives.....	3
3.2.	Adherend Condition	3
3.3.	Adhesive Bond	4
3.4.	Adhesive Mechanical Stress	4
3.4.1.	Static Load	4
3.4.2.	Dynamic Stiffness	4
3.4.3.	Stress of Car Bodies and their Parts.....	4
3.5.	Corrosion Protection	4
3.6.	Fire Protection.....	5
4.	Notes Concerning the Design of Adhesive Bonds	5
4.1.	Determination of Minimum Adhesive Surface	5
4.2.	Determination of Minimum Required Adhesive Thickness or Minimum Joint Width	6
4.3.	Protection of Adhesives from UV Light	8
5.	Production	8
5.1.	Adhesive Surface Treatment.....	8
5.2.	Adhesive Application	8
5.2.1.	Wet Application Method	8
5.2.2.	Dry Application Method	9
5.3.	Work Environment.....	9
5.4.	Work Equipment and Aids	10
5.4.1.	Elastic Adhesive Dispenser.....	10
5.4.2.	Fill Backstop.....	10
5.4.3.	Spacer.....	11
5.4.4.	Adhesive Tapes	11
5.5.	Work Safety.....	11
6.	Quality Assurance	11
6.1.	Personnel Requirements	11
6.2.	Preliminary Qualification	12
6.3.	Process Control.....	13
6.4.	Verification, Auditing and Associated Documentation.....	14
7.	Standards, Guidelines, Reports and Professional Literature	15
8.	Appendices	17
8.1.	Appendix 1	17
8.2.	Appendix 2	17
8.3.	Appendix 3	24

Voransicht des Regelwerkes