

DIN SPEC 91326:2016-09 (E)

Fire retardant, multiaxial reinforced composite parts, manufactured in vacuum process technologies for railway vehicle applications

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | 3 |
| Introduction | | 4 |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Terms and definitions | 6 |
| 4 | Requirements | 8 |
| 5 | Mechanical properties | 8 |
| 5.1 | General | 8 |
| 5.2 | Static properties | 8 |
| 5.3 | Core materials in sandwich constructions | 11 |
| 5.4 | Dynamic properties | 12 |
| 5.5 | Further application examples | 13 |
| 5.5.1 | General | 13 |
| 5.5.2 | Monolithic laminate | 15 |
| 5.5.3 | Sandwich laminate | 26 |
| 5.5.4 | Dynamic strength | 27 |
| 6 | Fire properties | 29 |
| 6.1 | General | 29 |
| 6.2 | DIN EN 45545-2 "Hazard Level" | 29 |
| 7 | Preparation and manufacturer's instructions for the fabrication of laminates | 29 |
| 7.1 | Principle of structuring layers | 29 |
| 7.2 | Principle of vacuum infusion | 29 |
| 8 | Bonding by adhesive | 30 |
| 8.1 | Product properties | 30 |
| 8.2 | Substrate preparation | 31 |
| 8.2.1 | General | 31 |
| 8.2.2 | Processing conditions | 31 |