

#### **4.4 Use of fibre-reinforced plastics (FRP) tanks**

##### **4.4.1 General**

The carriage of dangerous substances in fibre-reinforced plastics (FRP) tanks is permitted only when the following conditions are met:

- (a) the substance is classified in Class 3, 5.1, 6.1, 6.2, 8 or 9;
- (b) the maximum vapour pressure (absolute pressure) at 50 °C of the substance does not exceed 100 kPa (1.1 bar);
- (c) the carriage of the substance in metallic tanks is expressly authorized [under each section 1 of Part II in Appendices B.1a or B.1b of ADR/under each section X.1 of Appendices X or X1 of RID] [under section 4.2.1 of this Regulation/Annex];
- (d) the calculation pressure specified for that substance [in section 2 of Part II in Appendices B.1a or B.1b of ADR/in section X.2 of Appendices X or X1 of RID] [according to column 10 of Table A in Chapter 3.2] does not exceed 400 kPa (4 bar); and
- (e) the tank complies with the provisions of Chapter 6.9 applicable for the carriage of the substance.

##### **4.4.2 Operation**

- 4.4.2.1 The provisions of marginals 211 171 to 211 179 of ADR (1.7.1 to 1.7.9 of Appendix X1 of RID) (fixed tanks and demountable tanks) and marginals 212 170 to 212 178 of ADR (1.7.1 to 1.7.9 of Appendix X of RID) (tank-containers)[4.2.1.3 to 4.2.1.7 and 4.2.3.2 of restructured RID/ADR] shall apply.
  - 4.4.2.2 The temperature of the substance carried shall not exceed, at the time of filling, the maximum service temperature indicated on the tank plate referred to in 6.9.6.
  - 4.4.2.3 When applicable to carriage in metallic tanks, the special provisions of the appropriate section 7 of Part II of Appendices B.1a and B.1b of ADR (RID: sections X.7 of Appendices X and X1 shall also apply).  
[When applicable to carriage in metallic tanks, the special provisions of section [4.2.3.2] (TS) shall also apply, as indicated in column 11 of table A in Chapter 3.2]”
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