

# DIN EN 1410:2023-12 (E)

## Chemicals used for treatment of water intended for human consumption - Cationic polyacrylamides

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	6
4	Description .....	6
4.1	Identification .....	6
4.1.1	Chemical name(s) .....	6
4.1.2	Synonym(s) or common name(s) .....	6
4.1.3	Relative molecular mass .....	6
4.1.4	Empirical formula .....	6
4.1.5	Chemical formulae .....	7
4.1.6	CAS Registry Numbers .....	8
4.1.7	EINECS reference .....	8
4.2	Commercial form .....	8
5	Physical properties .....	8
5.1	Appearance .....	8
5.2	Bulk density .....	8
5.3	Solubility .....	9
5.4	Vapour pressure .....	9
5.5	Boiling point at 100 kPa .....	9
5.6	Melting point .....	9
5.7	Specific heat .....	9
5.8	Viscosity dynamic .....	9
5.9	Critical temperature .....	9
5.10	Critical pressure .....	9
5.11	Physical hardness .....	9
6	Chemical properties .....	9
6.1	General .....	9
6.2	Purity criteria .....	9
6.2.1	General .....	9
6.2.2	Impurities and main by-products .....	10
6.3	Composition of commercial product .....	10
6.4	Chemical parameters .....	10
7	Test methods .....	10
7.1	Sampling .....	10
7.2	Analyses .....	10
7.2.1	General .....	10
7.2.2	Main product .....	10
7.2.3	Impurity: Residual acrylamide monomer content .....	11
8	Labelling - transportation - storage .....	14
8.1	Means of delivery .....	14

8.2	Labelling according to the EU Legislation .....	14
8.3	Transportation regulations and labelling .....	15
8.4	Marking .....	15
8.5	Storage .....	15
8.5.1	Long term stability .....	15
8.5.2	Storage incompatibilities .....	15
<b>Annex A (informative) General information on cationic polyacrylamides .....</b>		<b>16</b>
A.1	Origin .....	16
A.1.1	Raw materials .....	16
A.1.2	Manufacturing process .....	16
A.2	Use .....	16
A.2.1	Function .....	16
A.2.2	Form in which it is used .....	17
A.2.3	Treatment dose .....	17
A.2.4	Means of application .....	17
A.2.5	Secondary effects .....	17
A.2.6	Removal of excess product .....	17
A.3	Rules for safe handling and use .....	17
A.4	Emergency procedures .....	18
A.4.1	First aid .....	18
A.4.2	Spillage .....	18
A.4.3	Fire .....	18
<b>Bibliography .....</b>		<b>19</b>