KLIMAWENT S.A. produces wide range of chemically resistant fans, designed for conveying the air contaminated with chemically aggressive agents. This resistance has been obtained due to appropriate construction and application of special materials for manufacturing. Usefulness of the subsequent types of fans for extraction of the air contaminated with following chemical substances is represented in the Tables below.

Table of chemical resistance of the fans SPARK-CHEM/Ex

Medium	Concentration	Temperature [°C]	1.4301
Seawater	–	20	+P
Chlorinated water	1 g/l	20	+
	1 mg/l	20	++
Ammonia	–	boiling point	++
Sodium hydroxide	20%	50	++
	20%	100	++
	40%	100	+
Phosphoric acid	20%	boiling point	++
	40%	boiling point	++
	80%	95	–
Nitric acid	30%	boiling point	++
	50%	boiling point	+
	65%	80	++
	65%	boiling point	+
Hydrochloric acid	0,50%	20	+P
	0,50%	boiling point	–
	1%	20	+P
Sulphuric acid	1%	100	–
	5%	20	+
Citric acid	25%	boiling point	–
	50%	20	++
Lactic acid	10%	10–100	+
	50%	20–80	+
	50%	boiling point	–

Medium	Concentration	Temperature [°C]	1.4301
Formic acid	5–10%	20	++
	10%	80	–
	50%	24–40	+
	50%	boiling point	–
Acetic acid	1%	boiling point	++
	10%	boiling point	+
	20%	boiling point	–
	100%	boiling point	–
Sodium chloride	3%	20–60	+P

Corrosion rate [mm/year]	Resistance
++	total
+	partial
–	not resistant
S – risk of stress corrosion P – risk of pitting corrosion	