CHEMICAL RESISTANCE

Resistance of plastic fittings to chemicals

Durability of plastic waste fittings manufactured by Alcadrain s.r.o. to the chemicals used

Plastic waste fittings manufactured by Alcadrain s.r.o. meet the requirements of the EN 274-1 standard. Their waste pipes and traps are made of materials that resist waste water with a temperature ranging from 20°C (+5 °C, −5 °C) to 95 °C (+0 °C, −2 °C). All materials also resist contact with domestic waste water. In case there will be fittings used for other than domestic purposes and will be exposed to more aggressive chemicals, the user must follow the recommended resistance values below.*

Legend:

A – Resistant

B – Partially resistant

C – Not durable

Chemical resistenc of polypropylene

Chemical substances	CAS No.:	*Concentration (%)*	*Temperature (°C)*	Resistance
Acetone	000067-64-1	pure	25	● A
Formic acid	000064-18-6	98	25	● A
Amonium sulfide	012124-99-1	pure	100	● A
Amyl alcohol	000071-41-0	pure	60	● A
Benzene	000071-43-2	pure	25	● B
Glycol	000111-46-6	pure	60	● A
Brome	007726-95-6	pure	25	● C
Butane	000106-97-8	pure	25	● A
Calcium hypochlorite	007778-54-3	12,5	80	● A
Chlorine (liquid)	007782-50-5	pure	25	● C
Citric acid	000077-92-9	60	100	● A
Acetic Acid	000064-19-7	100	25	● A
Hydrofluoric acid	007664-39-3	40	80	● A
Formaldehyde	000050-00-0	pure	60	● A
Glycerine	000056-81-5	pure	100	● A
Magnesium chloride	007786-30-3	saturated	100	● A
Methanol	000067-56-1	pure	50	● A
Lactic acid	000050-21-5	25	100	● A
Motor oil	–		25	● A
Sodium chloride	007647-14-5	saturated	100	● A
Sodium Thiosulfate	007772-98-7	saturated	70	● A
Perchlorethylene	000127-18-4	pure	25	● C
Phenol	000108-95-2	saturated	80	● A
Propylalcohol	000067-63-0	pure	60	● A
Nitric acid	007697-37-2	65	25	● B
Hydrochloric acid	007647-01-0	35	60	● A
Sulfuric acid	007664-93-9	10	100	● A
Sulfuric acid	007664-93-9	98	100	● C
Detergent	–	–	100	● A
Hydrogen peroxide	007722-84-1	3	80	● A
Hydrogen peroxide	007722-84-1	30	80	● B
Hydrogen peroxide	007722-84-1	100	80	● C

* The values given are based solely on laboratory tests with these materials. Plastic components made from them can be subject to influences that are not possible with laboratory tests, such as changing temperature, pressure, stress, effects of chemicals, aging, wear, etc. For this reason, the listed values are only indicative and in borderline cases it is necessary to carry out own tests. Knowledge of chemical and mechanical resistance alone is not sufficient to evaluate the usability of the product or pressing!

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The company is registered in the Commercial Register kept by the Municipal Court in Prague.
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