

MATERIALS

BODY MATERIALS (internally body is fully rubberlined and protected against corrosion)

Ductile Iron	GGG40, DIN 1691 60-40-18, ASTM A536 400-18, BS 1452
Carbon Steel	ASTM A216, GS-C 25, BS 1504
Stainless Steel	1.4408, A351-CF8M
Aluminium Bronze	BS1400, ASTM B148 AB2, G-CuAl10Ni
Bronze Casting	C-CuSn10Zn, DIN 1705 (RG10), ASTM B584 LG1

DISC

Ductile Iron 300 µm Rilsan coated	EN 1563 EN-GJS-400-15
Aluminium Bronze	BS1400, ASTM B148 AB2, G-CuAl10Ni
Stainless Steel (316)	ASTM A743, 1.4408, A351-CF8M
Duplex	ASTM A276, 1.4462,
Monel (K400)	ASTM A494 M35
Other materials on request	

SHAFT

Stainless Steel	S.S.431
Duplex stainless steel	1.4462, SAF 2205
Monel(K500)	BS3076, NA18
Aluminium Bronze	ASTM B150, DIN17665
Other materials on request	

LINERS

NBR	Temp. 0 to 80°C
EPDM	Temp -30 to 110°C
FPM (B)	Temp 0 to 200°C
Other liner materials on request	

PINS

Monel (K500)	BS3076, NA18
Stainless Steel	1.4462
Aluminium Bronze	C63000

MATERIAL SELECTION

ELASTOMER TYPES

- BUNA-N
- EPDM
- HYPALON
- SILICONE
- VITON

	GGG40	Al-Br	AISI-316	Buna-N	EPDM	Hypalon	Silicone	Viton
Acetone	●	●	●	●	●	●	●	●
Acetylene	●	●	●	●	●	●	●	●
Acetic acid	●	●	●	●	●	●	●	●
Boric acid	●	●	●	●	●	●	●	●
Butyric acid	●	●	●	●	●	●	●	●
Carbonic acid	●	●	●	●	●	●	●	●
Chromic acid	●	●	●	●	●	●	●	●
Formic acid	●	●	●	●	●	●	●	●
Hydrochloric acid	●	●	●	●	●	●	●	●
Maleic acid	●	●	●	●	●	●	●	●
Nitric acid	●	●	●	●	●	●	●	●
Oleic acid	●	●	●	●	●	●	●	●
Phosphoric acid	●	●	●	●	●	●	●	●
Salicylic acid	●	●	●	●	●	●	●	●
Sulphuric acid	●	●	●	●	●	●	●	●
Tartaric acid	●	●	●	●	●	●	●	●
Air	●	●	●	●	●	●	●	●
Ethyl alcohol	●	●	●	●	●	●	●	●
Methyl alcohol	●	●	●	●	●	●	●	●
Aniline	●	●	●	●	●	●	●	●
Liquid asphalt	●	●	●	●	●	●	●	●
Benzol	●	●	●	●	●	●	●	●
Potassium Bichromate	●	●	●	●	●	●	●	●
Potassium Biphosphate	●	●	●	●	●	●	●	●
Borax	●	●	●	●	●	●	●	●
Potassium bromide	●	●	●	●	●	●	●	●
Butane	●	●	●	●	●	●	●	●
Calcium carbonate	●	●	●	●	●	●	●	●
Potassium carbonate	●	●	●	●	●	●	●	●
Sodium carbonate	●	●	●	●	●	●	●	●
Potassium chlorate	●	●	●	●	●	●	●	●
Barium chloride	●	●	●	●	●	●	●	●
Calcium chloride	●	●	●	●	●	●	●	●
Ferric chloride	●	●	●	●	●	●	●	●
Magnesium chloride	●	●	●	●	●	●	●	●
Mercury chloride	●	●	●	●	●	●	●	●
Potassium chloride	●	●	●	●	●	●	●	●
Sodium chloride	●	●	●	●	●	●	●	●
Zinc chloride	●	●	●	●	●	●	●	●
Chlorine	●	●	●	●	●	●	●	●
Chlorobenzene	●	●	●	●	●	●	●	●
Chloroform	●	●	●	●	●	●	●	●
Potassium cyanide	●	●	●	●	●	●	●	●
Acetic anhydride	●	●	●	●	●	●	●	●
Carbon dioxide	●	●	●	●	●	●	●	●
Sulphur dioxide	●	●	●	●	●	●	●	●
Ether	●	●	●	●	●	●	●	●
Sodium fluoride	●	●	●	●	●	●	●	●

● - excellent ● - good ● - middeling ● - not to be used

DISC

- Ductile Iron
- Aluminium Bronze
- Stainless steel AISI 316
- GGG-40
- Al.Br
- AISI 316

	GGG40	Al-Br	AISI-316	Buna-N	EPDM	Hypalon	Silicone	Viton
Formaldehyde	●	●	●	●	●	●	●	●
Furfural	●	●	●	●	●	●	●	●
Gasoline	●	●	●	●	●	●	●	●
Glucose	●	●	●	●	●	●	●	●
Glycerol	●	●	●	●	●	●	●	●
Glycol	●	●	●	●	●	●	●	●
Heptane	●	●	●	●	●	●	●	●
Hydrogen	●	●	●	●	●	●	●	●
Barium Hydroxide	●	●	●	●	●	●	●	●
Calcium Hydroxide	●	●	●	●	●	●	●	●
Sodium Hydroxide	●	●	●	●	●	●	●	●
Sodium Hypochlorite	●	●	●	●	●	●	●	●
Kerosene	●	●	●	●	●	●	●	●
Juices	●	●	●	●	●	●	●	●
Methane	●	●	●	●	●	●	●	●
Milk	●	●	●	●	●	●	●	●
Naphta	●	●	●	●	●	●	●	●
Naphtalene	●	●	●	●	●	●	●	●
Ammonium nitrate	●	●	●	●	●	●	●	●
Silver nitrate	●	●	●	●	●	●	●	●
Animal oil	●	●	●	●	●	●	●	●
Diathermic oil	●	●	●	●	●	●	●	●
Emulsifiable oil	●	●	●	●	●	●	●	●
Lubricating oil	●	●	●	●	●	●	●	●
Mineral oil	●	●	●	●	●	●	●	●
Vegetable oil	●	●	●	●	●	●	●	●
Oxygen	●	●	●	●	●	●	●	●
Sodium perborate	●	●	●	●	●	●	●	●
Hydrogen peroxide	●	●	●	●	●	●	●	●
Petroleum	●	●	●	●	●	●	●	●
Ammonic phosphate	●	●	●	●	●	●	●	●
Sodium phosphate	●	●	●	●	●	●	●	●
Pickling sol	●	●	●	●	●	●	●	●
Propane	●	●	●	●	●	●	●	●
Solvent	●	●	●	●	●	●	●	●
Ammonic sulfate	●	●	●	●	●	●	●	●
Barium sulfate	●	●	●	●	●	●	●	●
Ferric sulfate	●	●	●	●	●	●	●	●
Zinc sulfate	●	●	●	●	●	●	●	●
Potassium sulphide	●	●	●	●	●	●	●	●
Sodium sulphide	●	●	●	●	●	●	●	●
Steam	●	●	●	●	●	●	●	●
Sulphur	●	●	●	●	●	●	●	●
Tetraethyl lead	●	●	●	●	●	●	●	●
Turpentine	●	●	●	●	●	●	●	●
Urea	●	●	●	●	●	●	●	●
Sea Water	●	●	●	●	●	●	●	●
Soft Water	●	●	●	●	●	●	●	●

