

Materials used in manufacturing

ST SRL products (trade mark ESSETI™) are not designed nor constructed for use in food or drinking water.

BRASS BREAD (die-cast parts)

Commercial name: **DELTA C (UNI EN CB754S)**

Chemical composition:

Cu	Pb	Ni	Fe	Mn	Sn	Si	Al	As	Zn
58 – 62	0.5 – 2.4	≤ 1	≤ 0.7	≤ 0.5	≤ 1	≤ 0.05	0.1 – 0.8	--	rest

Density	8.45 kg/dm ³
Electrical conductivity	21
Linear withdrawal	1.9 – 2 %
Melting point	850 °C
Strain temperature	980 – 1080 °C
Loaded breach to traction	390 – 440 N/mm ²
Lengthening	22 – 25 %
Brinell hardness	90 – 100 HB

DRAWN BAR (automatic lather-worked parts)

Alloy: **UNI EN 12164 CW614N (CuZn39Pb3)**

Chemical composition:

Cu	Pb	Ni	Fe	Al	Sn	Si	Others	Zn
57 – 59	2.5 – 3.5	≤ 0.2	≤ 0.3	≤ 0.05	≤ 0.3	≤ 0.05	≤ 0.2	ress

EXTRUDED BAR (hot-pressed parts)

Alloy: **UNI EN 12165 CW617N (CuZn40Pb2)**

Chemical composition:

Cu	Pb	Ni	Fe	Mn	Sn	Si	Altre	Zn
57 – 59	1.6 – 2.2	≤ 0.1	≤ 0.3	≤ 0.05	≤ 0.3	≤ 0.03	≤ 0.2	rest

SEAL RUBBERS

Material: **EPDM 65SH**

PLASTIC PISTONS

Material: **PP FV30** (Polypropylene loaded fiber glass 30%)

Used in 274 series: **POM** (Acetal – polyoxymethylene)

STAINLESS STEEL ROUND AND FLAT ARMS

Material: **AISI 430**

STAINLESS STEEL SEATS

Material: **AISI 304**

FLOAT BALLS

Plastic balls: **HD PE family 5502** (e.g. HIPLEX 5502 or ERACLENE BC82)

Copper balls: **deep steaming copper** (Cu ≥ 99%) + **tin brazing**