Our factory in Mulazzano

The technical office

The workshop
MOLDS FOR ALL INLINE BAR FREEZERS

4 WIDE UP TO 24 WIDE MOLD STRIPS

- Mold strips complete with unique interlocking splash guard.
- Mold cups are made of 316L stainless steel, and are precision welded into a 316L stainless steel carrier strip for durable, sanitary construction.
- Guaranteed constant thickness throughout entire mold cup regardless of complexity.
- Highly polished smooth finish.
- Excellent heat transfer capability.
- Extremely durable construction.
MODELS
14,20,23,27,32,35

ROLLO MOLDS
POLAR 12 SEGMENT

RIA 10 SEGMENT

RIA 6 IN SEGMENTS
MOLDS AND ACCESSORIES FOR ALL INLINE, ROTARY, OVAL AND MANUAL STICK NOVELTY SYSTEMS

- Stainless steel basket molds and stick holders
- Stainless steel stickless holders for basket molds
- Replacement extractor bars and extractor tongs for all bar freezers
**TECHNICAL FEATURES**

- Mold cups are stamped using a proprietary process; no annealing or chemical treatment is needed.
- The mold cup thickness is guaranteed throughout the entire cup.
- The mold cup has a smooth surface with no tool marks.
- The mold cup volumes are calculated using computer design for accuracy.
- The mold cups are assembled using a computerized robotic welding, and mounted into precision sized, laser cut positioning holes.
- Completed molds are electro-polished.
- Over 1000 shapes and sizes to choose from.
- Available for all sizes and makes of machines; Rotary or Inline.

**ROTARY MACHINE MOLDS**

- Rotary mold Cups are manufactured using 254SMO stainless steel offering extremely high resistance to pitting and crevice corrosion compared to standard 304 or 316L stainless steel. (A complete technical description of 254SMO stainless steel is available upon request.)
- Mold cups are attached to a 254SMO stainless steel, 3 mm thick carrier segment using a sanitary TIG welding process.
- Completed mold segments are positioned, as they would be on the Rotary Bar Freezer, and quality checked to ensure perfect sealing between segment joints, flatness, sanitary finish, and they are dye leak checked to ensure the highest degree of quality.
- Quality control test certificates, are available upon request and include; volume control, test certificate from Avesta, test certificate of chemical and physical analysis, dimensional tolerance, and leak test data sheets.

**INLINE MACHINE MOLDS**

- Inline Mold Cups do not require the same corrosion resistance and are made using 316L stainless steel which are TIG welded into 316L stainless steel mold strips.
- Mold strips have a “splash guard” feature to prevent brine from entering the mold cups.

**ADVANTAGES**

- 3 Years warranty on our molds. Within the first two years from the date of shipment, if the molds need repair for any reason, other than misuse or neglect of the molds, we will repair or replace (at our discretion) the mold cups or segments at our expense. Should the molds experience problems within 3 years from the date of shipment, again excluding problems resulting from misuse or neglect, the molds will be repaired at a reduced cost to the user, the cost will be calculated on a prorated time/use/cost basis.
- Single piece molds offered by some Original Equipment (OEM) suppliers must go through numerous drawing and annealing processes. During each stage of drawing and annealing, the Avesta material can lose its original composition. This is obvious by the presence of tool marks which are visible on the surface of drawn mold cups, and test certification will show that the annealing process alters the original Avesta properties.
- Our mold cups are made using a single stamping process. They are not annealed or chemically treated. As a result our mold cups have a smooth finish, free from tool marks, and they retain all of the original 254SMO material properties.
- Guaranteed constant thickness throughout the mold cup due to our mold stamping process. Mold thickness is guaranteed even on complicated, compound surface mold shapes, unlike the OEM molds which have thinner areas at the nose and on any ridges and corners in the mold cup.

Better prices, without sacrificing quality or delivery, due to our unique manufacturing process.
## Materials

- **316L stainless steel**
- **Avesta 254 SMO TM**

<table>
<thead>
<tr>
<th>AvestaPolarit steel name</th>
<th>International steel No</th>
<th>Typical composition, %</th>
<th>National steel designations, superseded by EN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EN</td>
<td>ASTM</td>
<td>C</td>
</tr>
<tr>
<td>4436</td>
<td>1.4436</td>
<td>316</td>
<td>0.02</td>
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<tr>
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<td>1.4529</td>
<td>N08926</td>
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<tr>
<td>904L</td>
<td>1.4539</td>
<td>N08904</td>
<td>0.01</td>
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<tr>
<td>254 SMO®</td>
<td>1.4547</td>
<td>S31254</td>
<td>0.01</td>
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<td>654 SMO®</td>
<td>1.4652</td>
<td>S32654</td>
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<td>Ni-alloys**</td>
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<tr>
<td>Alloy 625</td>
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<td>0.10</td>
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<tr>
<td>Alloy C-276</td>
<td>–</td>
<td>N10276</td>
<td>0.02</td>
</tr>
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</table>
CHARACTERISTIC PROPERTIES

- Austenitic structure.
- Good to very good resistance to uniform corrosion.
- Good to exceptionally good resistance to pitting and crevice corrosion.
- Very good resistance to various types of stress corrosion cracking.
- Good ductility and weldability.

Table 7. Uniform corrosion in pickling acid at 25°C

<table>
<thead>
<tr>
<th>Steel grade</th>
<th>Corrosion rate, mm/year</th>
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<tbody>
<tr>
<td>4436</td>
<td>&gt;5</td>
</tr>
<tr>
<td>904L</td>
<td>0.51</td>
</tr>
<tr>
<td>254 SMO®</td>
<td>0.31</td>
</tr>
</tbody>
</table>

Composition in per cent: HNO₃ 20; HF 4.

Fig. 3. Isocorrosion curves, 0.1 mm/y, in pure hydrochloric acid.
The following is a survey of different features of molds from WCB Ice Cream and a selected competitor.
Surveys made by SMT s.r.l.

Report on Competitor

Report on WCB Ice Cream

MOLD COMPARISON
Production Method

Competitor

- Long series of stamping and annealing.
- Through each stamping and annealing stage, the material can lose its original composition, which adversely affects its original properties.

WCB Ice Cream

- One proprietary, single stamping operation, which does not require annealing.
- The molds are made in two halves and assembled using a computerized robotic welding process.
- The result is consistent material thickness of the mold cup, and a brilliant, smooth surface.
External Surface of New Cups

Competitor

WCB Ice Cream

Top Surface
Magnification: 0,9 times

Position numbers
for next slides

Lateral Surface
Magnification: 0,9 times
External Surface of New Cups

Competitor

WCB Ice Cream

Lateral Surface
Magnification: 50 times

Lateral Surface
Magnification: 50 times

Same material - but different surface
Competitor: Deep drawn and annealed
WCB: Welded metal
External Surface of New Cups

**MOLD COMPARISON**

**Competitor**

- Top Surface
  - Magnification: 50 times

**WCB Ice Cream**

- Top Surface
  - Magnification: 50 times

*Same material - but different surface*

- Competitor: Deep drawn and annealed
- WCB: Original surface
**Thickness Measurements**

**MOLD COMPARISON**

**Competitor**

Macrographic Examination
Magnification: 2/12 times

<table>
<thead>
<tr>
<th>Position</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 1:</td>
<td>0,65 mm</td>
<td>0,64 mm</td>
<td>0,62 mm</td>
</tr>
<tr>
<td>Position 2:</td>
<td>0,75 mm</td>
<td>0,73 mm</td>
<td>0,73 mm</td>
</tr>
<tr>
<td>Position 3:</td>
<td>0,67 mm</td>
<td>0,61 mm</td>
<td>0,62 mm</td>
</tr>
</tbody>
</table>

**WCB Ice Cream**

Macrographic Examination
Magnification: 2/12 times

<table>
<thead>
<tr>
<th>Position</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 1:</td>
<td>0,79 mm</td>
<td>0,78 mm</td>
<td>1,04 mm</td>
</tr>
<tr>
<td>Position 2:</td>
<td>0,80 mm</td>
<td>0,79 mm</td>
<td>0,98 mm</td>
</tr>
<tr>
<td>Position 3:</td>
<td>0,79 mm</td>
<td>0,77 mm</td>
<td>0,98 mm</td>
</tr>
</tbody>
</table>

The material thickness of WCB molds is more consistent!
Metallographic Examination

**Competitor**

Isolated precipitation of carbides at the grain boundary and inclusions

**WCB Ice Cream**

No precipitation of carbides at the grain boundary and no inclusions

Different surface structure due to different production methods!
Results of survey

MOLD COMPARISON

Competitor

• The surface examination indicate a diffuse presence of crater, and irregular surface.

• The macrographic examined extension show a corrected thickness distribution in the section.

• The metallographic examination shows a austenitic structure, not well solubility with isolated precipitation of carbides at the grain boundary and inclusions; No Sigma-Phase is present.

WCB Ice Cream

• The surface examination does not evidence defects, is of superficial type that of structural type, without presence of oxidation and crater.

• The macrographic examined extension show a corrected thickness distribution in the section.

• The metallographic examination shows a good austenitic structure, well solubility without precipitation of carbides at the grain boundary. No Sigma-Phase is present.
MOLD CUP DIMENSIONS AND CAPACITIES ILLUSTRATED

TOLERANCES

<table>
<thead>
<tr>
<th>DIMENSION RANGE</th>
<th>TOLERANCES</th>
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<tbody>
<tr>
<td>1 - 60 mm</td>
<td>± 0,5 mm</td>
</tr>
<tr>
<td>61 - 120 mm</td>
<td>± 1 mm</td>
</tr>
<tr>
<td>121 - 400 mm</td>
<td>± 1,5 mm</td>
</tr>
</tbody>
</table>

CAPACITY

± 2 CC.

MODEL N° 5054

IDENTIFICATION CODE

FILL LINE

FILL LINE is the level to which the product may be filled for proper freezing and will vary by the type of bar freezer used. The FILL LINE dimensions shown must be subtracted from the top of the mold cup to arrive at the filling level. This level determines the final product size and volume.

- FILL LINE for BASKET MOLDS only (Max)
- FILL LINE for ROTARY BAR FREEZERS (6 mm.)
- FILL LINE for INLINE BAR FREEZERS (20 mm.)

CAPACITY MAX cc = 86 cc
FILL LINE 6 mm = 81 cc
FILL LINE 20 mm = 67 cc
MODEL N° 5001

CAPACITY MAX = 81 cc
FILL LINE 6 mm = 77 cc
FILL LINE 20 mm = --

MODEL N° 5002

CAPACITY MAX = 69 cc
FILL LINE 6 mm = 63 cc
FILL LINE 20 mm = --

MODEL N° 5003

CAPACITY MAX = 83 cc
FILL LINE 6 mm = 76 cc
FILL LINE 20 mm = 64 cc

MODEL N° 5003L

CAPACITY MAX = 93 cc
FILL LINE 6 mm = 86 cc
FILL LINE 20 mm = 74 cc

MODEL N° 5004

CAPACITY MAX = 56 cc
FILL LINE 6 mm = 53 cc
FILL LINE 20 mm = --

MODEL N° 5005

CAPACITY MAX = 62 cc
FILL LINE 6 mm = 57 cc
FILL LINE 20 mm = --

CAPACITY MAX = 69 cc
CAPACITY MAX = 83 cc
CAPACITY MAX = 93 cc
CAPACITY MAX = 56 cc
**MODEL Nº 5019**
- **CAPACITY MAX** = 99 cc
- **FILL LINE 6 mm** = 92 cc
- **FILL LINE 20 mm** = 77 cc

**MODEL Nº 5019L**
- **CAPACITY MAX** = 103 cc
- **FILL LINE 6 mm** = 96 cc
- **FILL LINE 20 mm** = 80 cc

**MODEL Nº 5019G**
- **CAPACITY MAX** = 147 cc
- **FILL LINE 6 mm** = 139 cc
- **FILL LINE 20 mm** = 117 cc

**MODEL Nº 5020**
- **CAPACITY MAX** = 86 cc
- **FILL LINE 6 mm** = 81 cc
- **FILL LINE 20 mm** = --

**MODEL Nº 5021**
- **CAPACITY MAX** = 88 cc
- **FILL LINE 6 mm** = 83 cc
- **FILL LINE 20 mm** = 71 cc

**MODEL Nº 5021C**
- **CAPACITY MAX** = 79 cc
- **FILL LINE 6 mm** = 75 cc
- **FILL LINE 20 mm** = 62 cc
MODEL N° 5022
CAPACITY MAX = 77 cc
FILL LINE 6 mm = 73 cc
FILL LINE 20 mm = --

MODEL N° 5023
FILL LINE 6 mm = 77 cc
FILL LINE 20 mm = 64 cc

MODEL N° 5024
FILL LINE 6 mm = 75 cc
FILL LINE 20 mm = 61 cc

MODEL N° 5025
FILL LINE 6 mm = 92 cc
FILL LINE 20 mm = 76 cc

MODEL N° 5026
CAPACITY MAX = 80 cc
FILL LINE 6 mm = 75 cc
FILL LINE 20 mm = 63 cc

MODEL N° 5027
CAPACITY MAX = 82 cc
FILL LINE 6 mm = 77 cc
FILL LINE 20 mm = 62 cc
CAPACITY MAX = 80 cc
MODEL N° 5028
CAPACITY MAX = 100 cc
FILL LINE 6 mm = 95 cc
FILL LINE 20 mm = 80 cc

MODEL N° 5029
CAPACITY MAX = 107 cc
FILL LINE 6 mm = 100 cc
FILL LINE 20 mm = 84 cc

MODEL N° 5030
CAPACITY MAX = 87 cc
FILL LINE 6 mm = 82 cc
FILL LINE 20 mm = 69 cc

MODEL N° 5031
CAPACITY MAX = 71 cc
FILL LINE 6 mm = 68 cc
FILL LINE 20 mm = 57 cc

MODEL N° 5032
CAPACITY MAX = 84 cc
FILL LINE 6 mm = 79 cc
FILL LINE 20 mm = 66 cc
MODEL N° 5039
CAPACITY MAX = 82 cc
FILL LINE 6 mm = 78 cc
FILL LINE 20 mm = 62 cc

MODEL N° 5038
CAPACITY MAX = 105 cc
FILL LINE 6 mm = 98 cc
FILL LINE 20 mm = 82 cc

MODEL N° 5037
CAPACITY MAX = 65 cc
FILL LINE 6 mm = 62 cc
FILL LINE 20 mm = --

MODEL N° 5036
CAPACITY MAX = 20 cc
FILL LINE 6 mm = 15 cc
FILL LINE 20 mm = --

MODEL N° 5035
CAPACITY MAX = 100 cc
FILL LINE 6 mm = 95 cc
FILL LINE 20 mm = 82 cc

MODEL N° 5033
CAPACITY MAX = 112 cc
FILL LINE 6 mm = 112 cc
FILL LINE 20 mm = 95 cc

CAPACITY MAX = 99 cc
FILL LINE 6 mm = 95 cc
FILL LINE 20 mm = 82 cc

CAPACITY MAX = 78 cc
FILL LINE 6 mm = 79 cc
FILL LINE 20 mm = 62 cc

CAPACITY MAX = 62 cc
FILL LINE 6 mm = 62 cc
FILL LINE 20 mm = --
MODEL N° 5045
FILL LINE 6 mm = 90 cc
FILL LINE 20 mm = 78 cc
CAPACITY MAX = 95 cc

MODEL N° 5044
FILL LINE 6 mm = 107 cc
FILL LINE 20 mm = 84 cc
CAPACITY MAX = 107 cc

MODEL N° 5043
FILL LINE 6 mm = 72 cc
FILL LINE 20 mm = 60 cc
CAPACITY MAX = 77 cc

MODEL N° 5042
FILL LINE 6 mm = 74 cc
FILL LINE 20 mm = 64 cc
CAPACITY MAX = 77 cc

MODEL N° 5041
FILL LINE 6 mm = 90 cc
FILL LINE 20 mm = 84 cc
CAPACITY MAX = 96 cc

MODEL N° 5040
FILL LINE 6 mm = 73 cc
FILL LINE 20 mm = 60 cc
CAPACITY MAX = 78 cc
MODEL N° 5046
CAPACITY MAX = 80 cc
FILL LINE 6 mm = 75 cc
FILL LINE 20 mm = 63 cc

MODEL N° 5047
CAPACITY MAX = 75 cc
FILL LINE 6 mm = 73 cc
FILL LINE 20 mm = 62 cc

MODEL N° 5048
CAPACITY MAX = 20 cc
FILL LINE 6 mm = 15 cc
FILL LINE 20 mm = --

MODEL N° 5049
CAPACITY MAX = 120 cc
FILL LINE 6 mm = 98 cc
FILL LINE 20 mm = 90 cc

MODEL N° 5050
CAPACITY MAX = 102 cc
FILL LINE 6 mm = 64 cc
FILL LINE 20 mm = 56 cc

MODEL N° 5051
CAPACITY MAX = 99 cc
FILL LINE 6 mm = 80 cc
FILL LINE 20 mm = 72 cc

MODEL N° 5052
CAPACITY MAX = 75 cc
FILL LINE 6 mm = 51 cc
FILL LINE 20 mm = 48 cc

MODEL N° 5053
CAPACITY MAX = 20 cc
FILL LINE 6 mm = 10 cc
FILL LINE 20 mm = 8 cc

MODEL N° 5054
CAPACITY MAX = 10 cc
FILL LINE 6 mm = 5 cc
FILL LINE 20 mm = 4 cc

MODEL N° 5055
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5056
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5057
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5058
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5059
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5060
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5061
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5062
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5063
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5064
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5065
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5066
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc

MODEL N° 5067
CAPACITY MAX = 5 cc
FILL LINE 6 mm = 2 cc
FILL LINE 20 mm = 1 cc
MODEL N° 5052
CAPACITY MAX = 50 cc
FILL LINE 6 mm = 42 cc
FILL LINE 20 mm = --

MODEL N° 5053
CAPACITY MAX = 81 cc
FILL LINE 6 mm = 75 cc
FILL LINE 20 mm = 61 cc

MODEL N° 5054
CAPACITY MAX = 86 cc
FILL LINE 6 mm = 81 cc
FILL LINE 20 mm = 67 cc

MODEL N° 5055
CAPACITY MAX = 30 cc
FILL LINE 6 mm = 25 cc
FILL LINE 20 mm = --

MODEL N° 5056
CAPACITY MAX = 114 cc
FILL LINE 6 mm = 107 cc
FILL LINE 20 mm = 92 cc

MODEL N° 5057
CAPACITY MAX = 46 cc
FILL LINE 6 mm = 44 cc
FILL LINE 20 mm = --
MODEL N° 5058

CAPACITY MAX = 77 cc
FILL LINE 6 mm = 72 cc
FILL LINE 20 mm = 65 cc

MODEL N° 5059

CAPACITY MAX = 103 cc
FILL LINE 6 mm = 98 cc
FILL LINE 20 mm = 80 cc

MODEL N° 5060

CAPACITY MAX = 77 cc
FILL LINE 6 mm = 73 cc
FILL LINE 20 mm = 58 cc

MODEL N° 5061

CAPACITY MAX = 66 cc
FILL LINE 6 mm = 63 cc
FILL LINE 20 mm = 51 cc

MODEL N° 5062

CAPACITY MAX = 80 cc
FILL LINE 6 mm = 74 cc
FILL LINE 20 mm = 59 cc

MODEL N° 5063

CAPACITY MAX = 82 cc
FILL LINE 6 mm = 77 cc
FILL LINE 20 mm = 65 cc

CAPACITY MAX = 77 cc
CAPACITY MAX = 103 cc
CAPACITY MAX = 77 cc
CAPACITY MAX = 66 cc
CAPACITY MAX = 80 cc
MODEL N° 5064

CAPACITY MAX = 100 cc
FILL LINE 6 mm = 95 cc
FILL LINE 20 mm = 86 cc

MODEL N° 5065

CAPACITY MAX = 105 cc
FILL LINE 6 mm = 102 cc
FILL LINE 20 mm = 86 cc

MODEL N° 5066

CAPACITY MAX = 52 cc
FILL LINE 6 mm = 50 cc
FILL LINE 20 mm = 43 cc

MODEL N° 5067

CAPACITY MAX = 7 cc
FILL LINE 6 mm = --
FILL LINE 20 mm = --

MODEL N° 5068

CAPACITY MAX = 50 cc
FILL LINE 6 mm = 43 cc
FILL LINE 20 mm = --

MODEL N° 5069

CAPACITY MAX = 105 cc
FILL LINE 6 mm = 95 cc
FILL LINE 20 mm = 86 cc

MODEL N° 5066

CAPACITY MAX = 92 cc
FILL LINE 6 mm = 86 cc
FILL LINE 20 mm = 69 cc

MODEL N° 5065

CAPACITY MAX = 95 cc
FILL LINE 6 mm = 81 cc
FILL LINE 20 mm = 78 cc
MODEL N° 5088
CAPACITY MAX = 90 cc
FILL LINE 6 mm = 85 cc
FILL LINE 20 mm = 69 cc

MODEL N° 5089
CAPACITY MAX = 99 cc
FILL LINE 6 mm = 95 cc
FILL LINE 20 mm = 82 cc

MODEL N° 5090
CAPACITY MAX = 70 cc
FILL LINE 6 mm = 66 cc
FILL LINE 20 mm = 58 cc

MODEL N° 5091
CAPACITY MAX = 54 cc
FILL LINE 6 mm = 51 cc
FILL LINE 20 mm = 43 cc

MODEL N° 5092
CAPACITY MAX = 73 cc
FILL LINE 6 mm = 68 cc
FILL LINE 20 mm = 56 cc

MODEL N° 5093
CAPACITY MAX = 112 cc
FILL LINE 6 mm = 106 cc
FILL LINE 20 mm = 90 cc
MODEL N° 5105

MODEL N° 5104

MODEL N° 5103

MODEL N° 5102

MODEL N° 5101

MODEL N° 5100
MODEL N° 5106
CAPACITY MAX = 81 cc
FILL LINE 6 mm = 76 cc
FILL LINE 20 mm = 63 cc

MODEL N° 5107
CAPACITY MAX = 70 cc
FILL LINE 6 mm = 66 cc
FILL LINE 20 mm = --

MODEL N° 5108
CAPACITY MAX = 77 cc
FILL LINE 6 mm = 70 cc
FILL LINE 20 mm = --

MODEL N° 5109
CAPACITY MAX = 123 cc
FILL LINE 6 mm = 114 cc
FILL LINE 20 mm = 97 cc

MODEL N° 5110
CAPACITY MAX = 81 cc
FILL LINE 6 mm = 77 cc
FILL LINE 20 mm = 65 cc

MODEL N° 5111
CAPACITY MAX = 142 cc
FILL LINE 6 mm = 130 cc
FILL LINE 20 mm = 110 cc
| MODEL N° 5117 | CAPACITY MAX = 92 cc | FILL LINE 6 mm = 86 cc | FILL LINE 20 mm = 71 cc |
| MODEL N° 5116 | CAPACITY MAX = 71 cc | FILL LINE 6 mm = 67 cc | FILL LINE 20 mm = 56 cc |
| MODEL N° 5115 | CAPACITY MAX = 123 cc | FILL LINE 6 mm = 116 cc | FILL LINE 20 mm = 102 cc |
| MODEL N° 5114 | CAPACITY MAX = 148 cc | FILL LINE 6 mm = 137 cc | FILL LINE 20 mm = 135 cc |
| MODEL N° 5113 | CAPACITY MAX = 92 cc | FILL LINE 6 mm = 87 cc | FILL LINE 20 mm = 74 cc |
| MODEL N° 5112 | CAPACITY MAX = 71 cc | FILL LINE 6 mm = 67 cc | FILL LINE 20 mm = 53 cc |
MODEL N° 5129
CAPACITY MAX = 84 cc
FILL LINE 6 mm = 79 cc
FILL LINE 20 mm = 66 cc

MODEL N° 5128
CAPACITY MAX = 81 cc
FILL LINE 6 mm = 77 cc
FILL LINE 20 mm = 64 cc

MODEL N° 5127
CAPACITY MAX = 70 cc
FILL LINE 6 mm = 66 cc
FILL LINE 20 mm =

MODEL N° 5126
CAPACITY MAX = 122 cc
FILL LINE 6 mm = 115 cc
FILL LINE 20 mm = 101 cc

MODEL N° 5125
CAPACITY MAX = 107 cc
FILL LINE 6 mm = 100 cc
FILL LINE 20 mm = 85 cc

MODEL N° 5124
CAPACITY MAX = 72 cc
FILL LINE 6 mm = 67 cc
FILL LINE 20 mm = 58 cc
MODEL N° 5130
CAPACITY MAX = 68 cc
FILL LINE 6 mm = 63 cc
FILL LINE 20 mm = 52 cc

MODEL N° 5131
CAPACITY MAX = 91 cc
FILL LINE 6 mm = 87 cc
FILL LINE 20 mm = 74 cc

MODEL N° 5132
CAPACITY MAX = 95 cc
FILL LINE 6 mm = 90 cc
FILL LINE 20 mm = 80 cc

MODEL N° 5133
CAPACITY MAX = 111 cc
FILL LINE 6 mm = 104 cc
FILL LINE 20 mm = 90 cc

MODEL N° 5134
CAPACITY MAX = 89 cc
FILL LINE 6 mm = 83 cc
FILL LINE 20 mm = 69 cc

MODEL N° 5135
CAPACITY MAX = 116 cc
FILL LINE 6 mm = 108 cc
FILL LINE 20 mm = 94 cc
MODEL N° 5136

- **Capacity Max:** 72 cc
- **Fill Line 6 mm:** 67 cc
- **Fill Line 20 mm:** 55 cc

MODEL N° 5137

- **Capacity Max:** 74 cc
- **Fill Line 6 mm:** 69 cc
- **Fill Line 20 mm:** 58 cc

MODEL N° 5138

- **Capacity Max:** 64 cc
- **Fill Line 6 mm:** 60 cc
- **Fill Line 20 mm:** 51 cc

MODEL N° 5139

- **Capacity Max:** 75 cc
- **Fill Line 6 mm:** 69 cc
- **Fill Line 20 mm:** 57 cc

MODEL N° 5140

- **Capacity Max:** 45 cc
- **Fill Line 6 mm:** 42 cc
- **Fill Line 20 mm:** 37 cc

MODEL N° 5141

- **Capacity Max:** 64 cc
- **Fill Line 6 mm:** 60 cc
- **Fill Line 20 mm:** 51 cc

MODEL N° 5142

- **Capacity Max:** 75 cc
- **Fill Line 6 mm:** 69 cc
- **Fill Line 20 mm:** 57 cc
<table>
<thead>
<tr>
<th>MODEL N° 5171</th>
<th>CAPACITY MAX  = 87 cc</th>
<th>FILL LINE 6 mm  = 83 cc</th>
<th>FILL LINE 20 mm  = 71 cc</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL N° 5170</td>
<td>CAPACITY MAX  = 93 cc</td>
<td>FILL LINE 6 mm  = 88 cc</td>
<td>FILL LINE 20 mm  = 75 cc</td>
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<tr>
<td>MODEL N° 5169</td>
<td>CAPACITY MAX  = 61 cc</td>
<td>FILL LINE 6 mm  = 58 cc</td>
<td>FILL LINE 20 mm  = 48 cc</td>
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<td>MODEL N° 5168</td>
<td>CAPACITY MAX  = 128 cc</td>
<td>FILL LINE 6 mm  = 121 cc</td>
<td>FILL LINE 20 mm  = 105 cc</td>
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<td>MODEL N° 5167</td>
<td>CAPACITY MAX  = 118 cc</td>
<td>FILL LINE 6 mm  = 112 cc</td>
<td>FILL LINE 20 mm  = 97 cc</td>
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<td>MODEL N° 5166</td>
<td>CAPACITY MAX  = 87 cc</td>
<td>FILL LINE 6 mm  = 71 cc</td>
<td>FILL LINE 20 mm  = 71 cc</td>
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MODEL N° 5177
CAPACITY MAX = 118 cc
FILL LINE 6 mm = 114 cc
FILL LINE 20 mm = 104 cc

MODEL N° 5176
CAPACITY MAX = 76 cc
FILL LINE 6 mm = 72 cc
FILL LINE 20 mm = 60 cc

MODEL N° 5175
CAPACITY MAX = 49 cc
FILL LINE 6 mm = 46 cc
FILL LINE 20 mm = 38 cc

MODEL N° 5174
CAPACITY MAX = 63 cc
FILL LINE 6 mm = 60 cc
FILL LINE 20 mm = 50 cc

MODEL N° 5173
CAPACITY MAX = 24 cc
FILL LINE 6 mm = 22 cc
FILL LINE 20 mm = 18 cc

MODEL N° 5172
CAPACITY MAX = 70 cc
FILL LINE 6 mm = 66 cc
FILL LINE 20 mm = 55 cc
MODEL N° 5183
CAPACITY MAX = 136 cc
FILL LINE 6 mm = 131 cc
FILL LINE 20 mm = 118 cc.

MODEL N° 5182
CAPACITY MAX = 43 cc
FILL LINE 6 mm = 39 cc
FILL LINE 20 mm = 31 cc.

MODEL N° 5181
CAPACITY MAX = 73 cc
FILL LINE 6 mm = 69 cc
FILL LINE 20 mm = 57 cc.

MODEL N° 5180
CAPACITY MAX = 74 cc
FILL LINE 6 mm = 70 cc
FILL LINE 20 mm = 62 cc.

MODEL N° 5179
CAPACITY MAX = 91 cc
FILL LINE 6 mm = 86 cc
FILL LINE 20 mm = 74 cc.

MODEL N° 5178
CAPACITY MAX = 85 cc
FILL LINE 6 mm = 80 cc
FILL LINE 20 mm = 68 cc.
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<tr>
<th>Model No.</th>
<th>Capacity Max</th>
<th>Fill Line 6 mm</th>
<th>Fill Line 20 mm</th>
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<td>5196</td>
<td>67 cc</td>
<td>63 cc</td>
<td>53 cc</td>
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<tr>
<td>5197</td>
<td>97 cc</td>
<td>91 cc</td>
<td>76 cc</td>
</tr>
<tr>
<td>5198</td>
<td>99 cc</td>
<td>93 cc</td>
<td>78 cc</td>
</tr>
<tr>
<td>5199</td>
<td>73 cc</td>
<td>68 cc</td>
<td>58 cc</td>
</tr>
<tr>
<td>5200</td>
<td>66 cc</td>
<td>62 cc</td>
<td>51 cc</td>
</tr>
<tr>
<td>5201</td>
<td>116 cc</td>
<td>110 cc</td>
<td>94 cc</td>
</tr>
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<td>MODEL N° 5202</td>
<td>MODEL N° 5203</td>
<td>MODEL N° 5204</td>
<td>MODEL N° 5205</td>
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<tr>
<td>---------------</td>
<td>---------------</td>
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<td>---------------</td>
</tr>
<tr>
<td>CAPACITY MAX  = 74 cc</td>
<td>CAPACITY MAX  = 64 cc</td>
<td>CAPACITY MAX  = 68 cc</td>
<td>CAPACITY MAX  = 62,5 cc</td>
</tr>
<tr>
<td>FILL LINE 6 mm  = 70 cc</td>
<td>FILL LINE 6 mm  = 59,5 cc</td>
<td>FILL LINE 6 mm  = 63 cc</td>
<td>FILL LINE 6 mm  = 58 cc</td>
</tr>
<tr>
<td>FILL LINE 20 mm  = 58 cc</td>
<td>FILL LINE 20 mm  = 52 cc</td>
<td>FILL LINE 20 mm  = 52 cc</td>
<td>FILL LINE 20 mm  = 50 cc</td>
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MODEL N° 5213
CAPACITY MAX = 70 cc
FILL LINE 6 mm = 67 cc
FILL LINE 20 mm = 56 cc

MODEL N° 5212
CAPACITY MAX = 136 cc
FILL LINE 6 mm = 128 cc
FILL LINE 20 mm = 115 cc

MODEL N° 5211
CAPACITY MAX = 93 cc
FILL LINE 6 mm = 88 cc
FILL LINE 20 mm = 75 cc

MODEL N° 5210
CAPACITY MAX = 129 cc
FILL LINE 6 mm = 123 cc
FILL LINE 20 mm = 106 cc

MODEL N° 5209
CAPACITY MAX = 48 cc
FILL LINE 6 mm = 44 cc
FILL LINE 20 mm = 36 cc

MODEL N° 5208
CAPACITY MAX = 127 cc
FILL LINE 6 mm = 116 cc
FILL LINE 20 mm = 97 cc
MODEL N° 5219
CAPACITY MAX = 98 cc
FILL LINE 6 mm = 93 cc
FILL LINE 20 mm = 69 cc

MODEL N° 5218
CAPACITY MAX = 110 cc
FILL LINE 6 mm = 104 cc
FILL LINE 20 mm = 87 cc

MODEL N° 5217
CAPACITY MAX = 94 cc
FILL LINE 6 mm = 89 cc
FILL LINE 20 mm = 77 cc

MODEL N° 5216
CAPACITY MAX = 111 cc
FILL LINE 6 mm = 104 cc
FILL LINE 20 mm = 88 cc

MODEL N° 5215
CAPACITY MAX = 104 cc
FILL LINE 6 mm = 98 cc
FILL LINE 20 mm = 78 cc

MODEL N° 5214
CAPACITY MAX = 98 cc
FILL LINE 6 mm = 93 cc
FILL LINE 20 mm = 78 cc
MODEL N° 5237
CAPACITY MAX = 72 cc
FILL LINE 6 mm = 68 cc
FILL LINE 20 mm = 57 cc

MODEL N° 5236
CAPACITY MAX = 98 cc
FILL LINE 6 mm = 90 cc
FILL LINE 20 mm = 79 cc

MODEL N° 5235
CAPACITY MAX = 75 cc
FILL LINE 6 mm = 70 cc
FILL LINE 20 mm = 58 cc

MODEL N° 5234
CAPACITY MAX = 95 cc
FILL LINE 6 mm = 90 cc
FILL LINE 20 mm = 75 cc

MODEL N° 5233
CAPACITY MAX = 48 cc
FILL LINE 6 mm = 46 cc
FILL LINE 20 mm = 40 cc

MODEL N° 5232
CAPACITY MAX = 75 cc
FILL LINE 6 mm = 70 cc
FILL LINE 20 mm = 58 cc
MODEL N° 5243
CAPACITY MAX = 179 cc
FILL LINE 6 mm = 168 cc
FILL LINE 20 mm = 156 cc

MODEL N° 5242
CAPACITY MAX = 140 cc
FILL LINE 6 mm = 134 cc
FILL LINE 20 mm = 126 cc

MODEL N° 5241
CAPACITY MAX = 105 cc
FILL LINE 6 mm = 99 cc
FILL LINE 20 mm = 92 cc

MODEL N° 5240
CAPACITY MAX = 106 cc
FILL LINE 6 mm = 102 cc
FILL LINE 20 mm = 92 cc

MODEL N° 5239
CAPACITY MAX = 118 cc
FILL LINE 6 mm = 109 cc
FILL LINE 20 mm = 97 cc

MODEL N° 5238
CAPACITY MAX = 179 cc
FILL LINE 6 mm = 168 cc
FILL LINE 20 mm = 156 cc
MODEL N° 5244
CAPACITY MAX  = 117 cc
FILL LINE 6 mm  = 111 cc
FILL LINE 20 mm  = 95 cc

MODEL N° 5245
CAPACITY MAX  = 86 cc
FILL LINE 6 mm  = 83 cc
FILL LINE 20 mm  = 75 cc

MODEL N° 5246
CAPACITY MAX  = 60 cc
FILL LINE 6 mm  = 55 cc
FILL LINE 20 mm  = 40 cc

MODEL N° 5247
CAPACITY MAX  = 31.5 cc
FILL LINE 6 mm  = 29 cc
FILL LINE 20 mm  = 25 cc

MODEL N° 5248
CAPACITY MAX  = 41.5 cc
FILL LINE 6 mm  = 39 cc
FILL LINE 20 mm  = 34 cc

MODEL N° 5249
CAPACITY MAX  = 61 cc
FILL LINE 6 mm  = 57 cc
FILL LINE 20 mm  = 48 cc
MODEL N° 5255
CAPACITY MAX = 96 cc
FILL LINE 6 mm = 89 cc
FILL LINE 20 mm = 72 cc

MODEL N° 5254
CAPACITY MAX = 116 cc
FILL LINE 6 mm = 109 cc
FILL LINE 20 mm = 96 cc

MODEL N° 5253
CAPACITY MAX = 83 cc
FILL LINE 6 mm = 77 cc
FILL LINE 20 mm = 63 cc

MODEL N° 5252
CAPACITY MAX = 41 cc
FILL LINE 6 mm = 38 cc
FILL LINE 20 mm = 28 cc

MODEL N° 5251
CAPACITY MAX = 113 cc
FILL LINE 6 mm = 107 cc
FILL LINE 20 mm = 91 cc

MODEL N° 5250
CAPACITY MAX = 44 cc
FILL LINE 6 mm = 42.5 cc
FILL LINE 20 mm = 37 cc
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<th>MODEL Nº 5267</th>
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<th>MODEL Nº 5265</th>
<th>MODEL Nº 5264</th>
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<tr>
<td>CAPACITY MAX  = 86 cc</td>
<td>CAPACITY MAX  = 37 cc</td>
<td>CAPACITY MAX  = 63 cc</td>
<td>CAPACITY MAX  = 110 cc</td>
<td>CAPACITY MAX  = 104 cc</td>
<td>CAPACITY MAX  = 88 cc</td>
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<tr>
<td>FILL LINE 6 mm = 80 cc</td>
<td>FILL LINE 6 mm = 34 cc</td>
<td>FILL LINE 6 mm = 58 cc</td>
<td>FILL LINE 6 mm = 105 cc</td>
<td>FILL LINE 6 mm = 98 cc</td>
<td>FILL LINE 6 mm = 84 cc</td>
</tr>
<tr>
<td>FILL LINE 20 mm = 66 cc</td>
<td>FILL LINE 20 mm = 24 cc</td>
<td>FILL LINE 20 mm = 49 cc</td>
<td>FILL LINE 20 mm = 90 cc</td>
<td>FILL LINE 20 mm = 83 cc</td>
<td>FILL LINE 20 mm = 68 cc</td>
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</table>
MODEL N° 5273
CAPACITY MAX = 147 cc
FILL LINE 6 mm = 137 cc
FILL LINE 20 mm = 121 cc

MODEL N° 5272
CAPACITY MAX = 35 cc
FILL LINE 6 mm = 32 cc
FILL LINE 20 mm = 22.5 cc

MODEL N° 5271
CAPACITY MAX = 109 cc
FILL LINE 6 mm = 102 cc
FILL LINE 20 mm = 91 cc

MODEL N° 5270
CAPACITY MAX = 147 cc
FILL LINE 6 mm = 137 cc
FILL LINE 20 mm = 121 cc

MODEL N° 5269
CAPACITY MAX = 63.5 cc
FILL LINE 6 mm = 60 cc
FILL LINE 20 mm = 53 cc

MODEL N° 5268
CAPACITY MAX = 52 cc
FILL LINE 6 mm = 49 cc
FILL LINE 20 mm = 41 cc

MODEL N° 5267
CAPACITY MAX = 70 cc
FILL LINE 6 mm = 60 cc
FILL LINE 20 mm = 53 cc
MODEL N° 5274
CAPACITY MAX = 109 cc
FILL LINE 6 mm = 103.5 cc
FILL LINE 20 mm = 89 cc

MODEL N° 5275
CAPACITY MAX = 45 cc
FILL LINE 6 mm = 40 cc
FILL LINE 20 mm = 28.5 cc

MODEL N° 5276
CAPACITY MAX = 108 cc
FILL LINE 6 mm = 102 cc
FILL LINE 20 mm = 86 cc

MODEL N° 5277
CAPACITY MAX = 87 cc
FILL LINE 6 mm = 84 cc
FILL LINE 20 mm = 69 cc

MODEL N° 5278
CAPACITY MAX = 89.5 cc
FILL LINE 6 mm = 83 cc
FILL LINE 20 mm = 73.5 cc

MODEL N° 5279
CAPACITY MAX = 79 cc
FILL LINE 6 mm = 103.5 cc
FILL LINE 20 mm = 62 cc
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