



# Progress Silicones

## QUALITY AND LABORATORY

**Our Quality Management System has been ISO 9001 certified since 1996. We have been ISO 13485 certified in September 2015.**

PROGRESS SILICONES is also committed to an environmental approach including waste sorting and recycling, hazardous chemicals treatment and risk activities confinement.

Our laboratory is able to make formulations, products quality inspection and testing. PROGRESS SILICONES has been designing a range of formulas that meet customers' requirements: hardness, physico-chemical constraints, food grade, pharmacopoeia, colours...

ISO  
13485

ISO  
9001

MADE IN  
FRANCE



Industry  
Medical  
Aeronautic  
Lighting  
Pharmaceutical  
Nuclear energy  
Railway  
...



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## MIXING

Precise dosing and mixing of the compound is ensured by the use of an automatic weighing machine directly linked to our laboratory, which allows it to get the traceability of components, colours and additives.

### Equipment

- External mixer
- Internal mixer in the industrial area as well as in the clean room

## MOULDING

From prototypes to mass production, **PROGRESS SILICONES** is an expert in moulding processes: injection, compression, liquid silicone injection, overmoulding. Mold engineering and manufacturing is done internally.

### Equipment

- Injection press
- Compression moulding press
- LSR injection press
- Cryogenic deflashing machine
- Rubber and LSR injection press in the clean room

## LSR (LIQUID SILICONE RUBBER)

**Injection of technical silicone parts: medium and mass production, weight from 0,1 to 200 g, thickness from 0,15 mm. Overmoulding: thermoplastic, metal insert, glass...**

### Processed raw materials:

- Standard range silicone from 10 to 90 Shore A
- Medical grade silicone implantable up to 29 days
- Self lubricated silicone
- Self-adhesive silicone
- Fluorinated silicone

## O-RING

**PROGRESS SILICONES can provide all types of O-rings, from single parts to series:**

- According to French or international standards
- Hardness from 5 to 90 Shore A depending on the formulation:
  - Silicone
  - FPM/FKM
  - EPDM
  - NBR
  - HNBR
  - CR

*Specific material homologations can be provided upon requests.*

## CUTTING

**PROGRESS SILICONES makes all kind of cutting operations including:**

- Computer guided sheet cutting (up to a width of 1500 mm)
- Online cutting or rework of extruded products: tubes, cords, profiles...
- Die cutting
- Mandrel cutting

### Equipment

- Continuous cutting or rework machine



**OUR STRENGTHS**  
QUALITY, REACTIVITY, RELIABILITY

PROGRESS SILICONES is a specialized manufacturing company which has been producing silicone and elastomers products for industry and medical sector since 1985. From small series to mass production, we manufacture all types of pieces by moulding, overmoulding, extrusion, coextrusion, assembling and cutting processes.

## EXTRUSION

**PROGRESS SILICONES makes all types of extruded products, in compact rubber or foam rubber: tubes, cords, squares, rectangles, profiles, and coextrusion. Adhesive laminating process on squares and rectangles.**

### Equipment

- 4 horizontal and 1 vertical extrusion lines in the industrial area
- 2 extrusion lines in the clean room

## MANUFACTURING

**PROGRESS SILICONES makes all types of seals**

- Inflatable seals
- Glued frame seals
- Moulded angles frame seals
- Custom seals according to drawings

### These seals are used in all sectors

- Window seals
- Autoclave seals
- Oven seals
- Door seals
- Container seals

## MEDICAL SECTOR

**Our clean rooms are dedicated to manufacture medical and pharmaceutical devices for all productions with stringent requirements in terms of particles contamination and process control**

- Area: 550 m<sup>2</sup>
- ISO class 8: LSR and rubber injection moulding, Extrusion
- 2 Extrusion lines
- Rubber and LSR injection press
- Post curing ovens
- Internal mixer

## QUALITY & DESIGN DEPARTMENTS

**A qualified staff, integrated equipments and processes (laboratory, design office, mechanical workshop) allow PROGRESS SILICONES to support you in the implementation of your projects.**

- Regulation follow-up
- CE1935
- EN45545
- REACH & RoHs
- USP

## MACHINING

**PROGRESS SILICONES produces the majority of the tools, moulds and dies. As well as some of devices integrated into finished products like valves, inserts,...**

### Equipment

- CAC GOelan / ProEngineer
- CAD Solidworks / CREO
- CAM Autocad Lt
- Milling machine
- Electroerosion
- Lathe