



AIRSTAR

AEROSPACE



stratospheric balloons

Stratospheric balloons are used by the scientific community to study the atmosphere, its chemistry and its dynamics. They are also valuable tools for astronomers and biologists, or for demonstrating technologies.

Since 1971, Airstar Aerospace has acquired a strong experience in textile design and manufacturing of stratospheric balloons.

Our balloons lift anything from a few kilograms to several tons and are able to operate at an altitude as high as 45 km.

We are ISO 9001 certified.



aIRSTAR

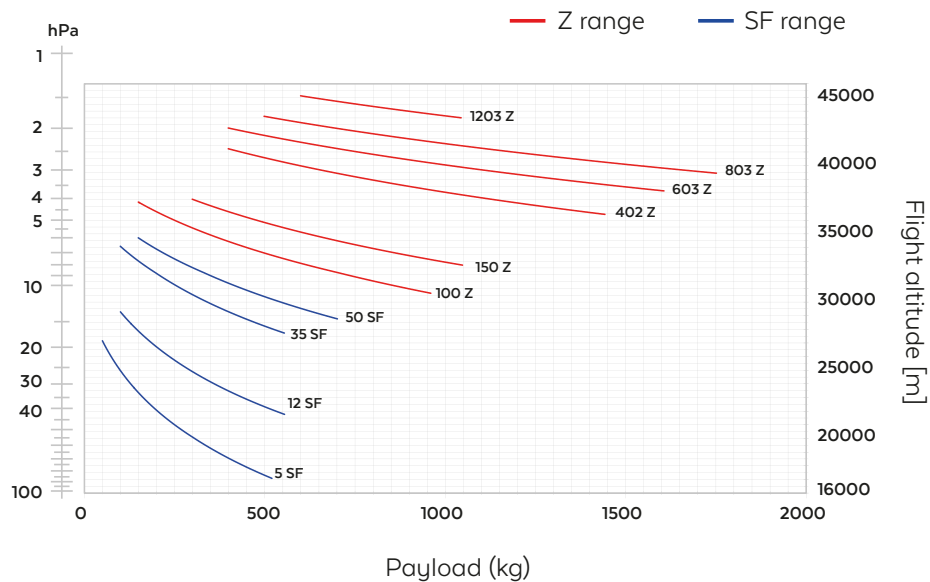
open stratospheric balloons

Open stratospheric balloons are gas-filled balloons (with hydrogen or helium). They have one or several openings at their base. Those openings enable the balance between the atmospheric pressure and the gas inside the balloon.

main features

- Flight duration: up to 1 week
- Payload up to 1 750 kg
- Flight altitude up to 45 000 meters

open stratospheric balloons performance in regular atmosphere - helium filled balloons



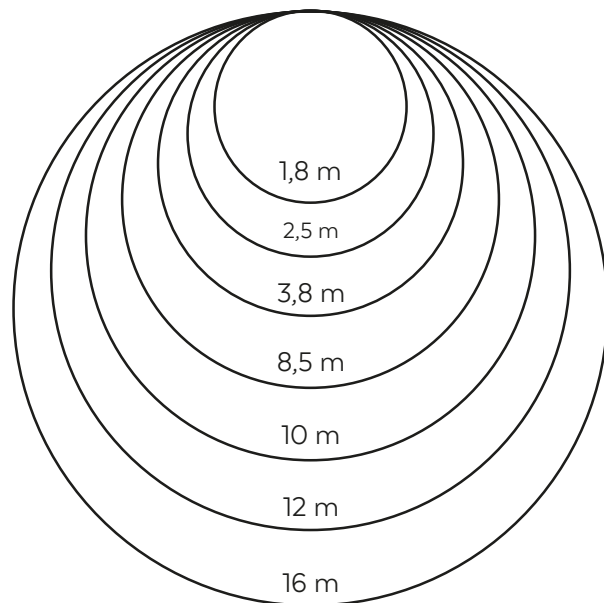
pressurized stratospheric balloons

Pressurized stratospheric balloons benefit from a very high level of tightness and from a strong reliability. Thus long-term flights above inhabited continents are possible.

main features

- Flight duration: long term use up to 6 months
- Payload up to 50 kg
- Flight altitude up to 20 000 meters

balloons diameters





Airstar Aerospace designs and manufactures tethered balloons, stratospheric balloons, airships, thermal protections for satellites and leads tailor-made projects for its customers.

Our know-how is based on:

- innovative **flexible materials engineering**
- high technicality **fabrics and films assembly**
- **mechanical modelling** of large deformations
- **equipped envelopes** and flexible structures design
- **development of aerostat equipments**: embedded electronics and mechatronics, complex wires, mechanical mooring systems, telemetry reception, inflation station...
- **payload integration**: optronics, telecommunication, radar...
- providing and training of **all operating and maintenance services on balloons.**

Relying on half a century of experience, Airstar Aerospace highly values safety and the respect of the compliance of its systems with aviation regulations.

**MADE IN
FRANCE**

Made in France



Stakeholder of the future transport program of the “Nouvelle France industrielle” (new industrial France) with Stratobus™ and Aerolifter



Supplier of many European space agencies



ISO 9001 certification



Millions of m² of balloons experienced with success for 40 years by the CNES



Member of SAFE, EDEN, Aerospace Valley, Pole Mer and TechTerra clusters

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