

## **TECHNICAL SPECIFICATION**

### **SPLIT RINGS OF COMPENSATION FOR BALL BEARINGS**

#### **RAW MATERIAL**

F.I.A.M.E.'s split rings of compensation for ball bearings are produced under our licence - with dies of our property - by a factory of Partnership associated to us, specialized in this sector and UNI EN ISO 9002:2015 certified.

They are obtained from steel strips for C67 - UNI 7064 springs and bought by qualified or ISO 9000 certified Suppliers who can equip the material with all the documentation that is required by this standard (chemical analysis, mechanical characteristics, hardness, etc.).

#### **WORKING SCHEDULE**

- Shearing and shaping.
- Distemper, backwashing and blazing-off.
- Fettling, burnishing according to FIAT 9.57451 Regulation and oiling.

The heat treatment is carried out in checked atmosphere and the parameters of this one are kept constant and verified by the operator with the help of made-to-measure objectifications and certified instrumentations.

This allows to obtain pieces with HRC 44÷48 constant hardnesses for every lot of production and without decarburization.

The dimensions of the rings, that are obtained after the shearing and shaping operation, may be altered by the heat treatment.

The duties of the split rings of axial compensation allow tolerances of the elastic constant of preloading with an acceptability index of  $\pm 20\%$ .

#### **QUALITY CONTROL**

During the production, the significant parameters are kept under continuous monitoring, with frequencies indicated by a specific control's schedule and formalized in self-control speed.

The pieces produced at the end of the productive schedule, before being packed, are subjected to a final control by the Quality Control, that, for every lot of production, issues a set Quality and Conformity Certificate, whose copy we can send to the Customer who needs it.

The F.I.A.M.E.'s catalogue, concerning the split rings of compensation for ball bearings, reports the dimensional and elastic characteristics for every type of ring; it's necessary to take into consideration that the diameters' dimensions are referred to flattened ring.

**F.I.A.M.E. srl**