21RF03
Galvanized self threading screws

Description
Self threading screw at hexagon head with under-head washer.

Characteristics
Self-threading screws belonging to this category are denominated as follows:

Screw AB 6,3 x 60 UNI 6950 – 71

This mark has the following meaning:
- "AB" means that the screw has a punted ending
- "6,3" indicates the screw diameter in mm
- "60" indicates the screw length in mm
- "UNI 6950 - 71" indicates the reference table

Composition of the alloy
Screws in question are made in a special C 15 carbon steel, with a thermal cementation treatment, in the following table the alloy composition is stated:

Chemical composition %					
%	C	Mn	Si	P	S
Min.	0,12	0,3	/	/	/
Max.	0,18	0,7	0,35	0,035	0,035

Physical characteristics
The values given below are meant as a guideline only as they may vary from lot to lot.
- Specific weight: 7,85 kg/dm^3
- Tensile strength at break: 70÷110 kg/mm^2
- Specified characteristics of yielding: 45 kg/mm^2
- Elongation %: 7
- Brinell hardness: 160 kg/mm^2
- Resilience test (Charpy): 4,5 kg m/cm^2
- Resilience test (Mesnager): 6 kg m/cm^2

Technological processes and treatments
This material undergoes a particular thermal treatment called “Carburazing Cementation” which consist on the carbon absorption by the surface of the piece with the aim of creating an hard superficial layer, therefore corrosion resistant, maintaining the toughness in the heart-piece. After the a.m. treatment a water quenching is executed at 875÷900 °C and finally a stretching at 150÷180 °C to reduce internal tensions is performed.

Galvanic processes and treatments
To improve their corrosion resistance screws undergo electrum zinc coating with deposition on the surface of the screw itself of a 5 μm zinc layer.

Packaging
Screws are contained in boxes of 200 pieces.