



Cover 1220.003, Case 1200.004 and shall be made of AK8M3ch (VAL8) alloy - an alloy based on the Aluminum-Silicon-Copper system.

Mass fraction of main components: Magnesium 0.2-0.45%; Silicon 7.0-8.5%; Zinc 0.5-1.0%; Copper 2.5-3.5%; Titanium 0.1-0.25%; Boron 0.005-0.1%; Beryllium 0.05-0.25%.

Mass fraction of impurities, no more than: Iron 0.4%, Cadmium 0.15%; Zirconium 0.15%; Sum of impurities taken into account 0.6%.

The products are manufactured using the injection molding method.

The products must have a galvanic coating of H6.M3.O-Vi (99.8) 9 - nickel 6 µm thick, copper 3 µm thick, tin-bismuth 9 µm thick.

The surfaces specified in the design documentation must be coated with polyurethane paint PU-H1081 Bronze Green RAL 6031, matte, in 3 layers.

Requirements for operating conditions:

- 1) temperature from -30 °C (long-term) to +55 °C (long-term), temperature drops (thermal cycling) from -50 °C to +55 °C and from +55 °C to -50 °C 3 times with an exposure of 2 hours;
- 2) humidity (9 cycles):
- the temperature is increased to 50 °C for 1-3 hours at a relative humidity of at least 95%;
- the temperature is maintained at 50 °C for 12 hours at a relative humidity of 93±3%;
- the temperature is reduced to 25 °C for 4-9 hours at a relative humidity of at least 95%.
- 3) solar radiation: integral heat flux density 1120 W/m2, ultraviolet radiation flux density 68 W/m2 (5 days at a temperature of 45 °C).

The products are not allowed to have burrs, deep scratches, craters, cracks and dents — the surface must be smooth.

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