**Requirements for pencil 2B regular**

**1. Specifications**

* 1. Pencil length – 17,5 cm, pencil width – 7 mm, lead diameter – 2,5mm
  2. Pencil body shape – hexagonal
  3. Pencil body color - #ccff00. The pencil should be cover with the any waterproof paint for pencils with #ccff00 color
  4. There is a 7 mm pink (#ff94ad) grater at the end of the pencil
  5. The name of the manufacturer is printed on the body of the pencil (along the body, the inscription starts from the middle of the pencil (from its full length) towards the grater). Marking 2b is also applied along the body, after the manufacturer's name with an indentation of 2 cm from it. Color of the all inscriptions - #000000
  6. The color of the lead should correspond to the standard color of the lead for pencil 2b.
  7. The softness of the pencil must meet the GGSE standard for pencil 2b
  8. The pencil is delivered in a gray (#3b444b) cardboard box 20 cm\*5 cm\*5 cm. One box contains 5 pencils. The box opens from two sides (top and bottom). The box is sealed on two opening sides with transparent tape (wide 5 cm)
  9. The pencil is shipped sharpened and can be used immediately after removing from the box. The length of the lead which is available for using is 5 mm

1. **Functional requirements**
   1. The pencil can be used for writing and drawing on the office paper (80 g/m2) and the carton (230 - 350 g/m2)
   2. Duration of usage. 10 km line (width – lead’s diameter) can be drawn by one pencil
   3. During the entire time of the usage (#9) the pencil can be sharpened from 16 to 17 times (using any sharpener for the pencils 2b)
   4. The grater should erase what was written with this pencil from office paper with a weight of 80 g/m2 and the carton (230 - 350 g/m2)
   5. Grater’s duration of usage. The grater must erase the line which was drawn by this pencil up to 3 km (width – lead’s diameter)
2. **Non Functional Requirements**
   1. Temperature range of the usage from -25 to +40
   2. If the pencil is put in +20 degrees water for 5 minutes, after drying it will continue to perform its functions
   3. Pencil does not break if it dropped from the height up to 1.5 m (it withstands up to 10 falls)