

# Since 1886 EE mark is the discriminant of the goods produced by Odlewnia Żeliwa SA

**Our brand EE is well known among the plumbers in Europe and in the world!!!**

Since many years we fight efficiently against cheap competition coming from Far East and not only. Do you ask how was it possible ?

**The answer is simple :**

- all fittings are 100% tested for leak tightness under the pressure of 5 bars !
- our fittings does not tear off during assembling. They have thicker walls and are heavier !
- chemical constitution of our cast iron is the result of the work of the best specialists and has been created by many decades
- we design our structural documentation by using the SolidWorks software.
- we create the simulation of the pouring (into) moulds process and the solidification process by using modern MAGMA software.
- we have the Policy - Product Liability Insurance

**Technical differences :**

Tensile strength of whiteheart cast iron amount 350-450 MPa, while the hardness amount approximately 220 HB.

Tensile strength of blackheart cast iron amount 300-350 MPa, while the hardness amount approximately 170-190 HB.

**The most important advantages of whiteheart cast iron that we produce since 125 years are following :**

- very good strength as well as plasticity
- good abilities for the vibration damping
- good resistance for abrasion
- little thermal expansion
- leak tightness

**Whiteheart cast iron replaces efficiently more expensive nonferrous alloys. Whiteheart cast iron is something between grey cast iron and a cast steel if we take into account the mechanical properties of the material because it has both good casting properties of cast iron as well as good mechanical properties of cast steel.**

