

## Imperial porcelain factory (IFZ)

No matter how complex and ornate or simple and plain didn't look porcelain figurine or process of their production in the Imperial porcelain factory since 1152, when there were first released at the porcelain object - and to this day remains complex and difficult care and diligence. Manufacture a porcelain Cup may consist of 80 processing steps. 21st century the technology of production of classic porcelain by D. I. Vinogradov in the mid-18th century, remained virtually unchanged. Porcelain mass made of thin mix white kaolin clay quartz feldspar and other aluminosilicates plus, add up to 40 different substances with different purposes. Hollow wares like cups or plates to create a pouring liquid porcelain mass of the slip into plaster molds. Gypsum partially absorbs moisture form open merge with the remnants of the slip, and remove damp delicate product to be drying. High strength porcelain technologists reach due to prolonged exposure to high temperatures of roasting. First, scrap the firing during the day at temperatures up to 900°C and after the glazing firing watered - about 2 days at a temperature of 13801430°C for hard-paste porcelain and 1280°C for the so-called soft porcelain it has more feldspar than the solid from which usually create animal sculptures. The porcelain in the kiln, the volume is reduced by approximately 11-second part. The decoration can be produced glaze-painted and with decals. Underglaze paints are more durable but have a less diverse palette as not all modern dyes can withstand even changing the color for a long period of heating to such high temperatures at which the glaze is fired. Of underglaze dyes in the production of the Imperial porcelain factory, the most common dark cobalt blue particularly well-known since Soviet times as a tea table or coffee set cobalt net. Overglaze paints are fired at temperatures 120860°C using their a large enough color palette and referring to predictable mutable when exposed to a color temperature. The decal is a decal printed with special inks on special paper film and covered with an unusual lacquer. When baking products with a picture, paper, film burns out and the ceramic inks are baked with the glaze and the surface of the porcelain remains fairly stable pattern. This technique of decoration easy to use hand drawing when we are talking about a fairly large print runs of products. Hand art painting at the time, brought the plant to world fame and finds a successful

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