

## FSUE MOSCOW SPECIAL ALLOYS PROCESSING PLANT

### MZSS

MOSCOW, CENTRAL  
RUSSIAN FEDERATION

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#### LOCATION

The **Moscow Special Alloys Processing Plant**, a major supplier of gold products for the jewellery, electronics and decorative industries in the Russian Federation, has its headquarters and gold refinery in Moscow.

The company, whose abbreviated name is **MZSS**, manufactures London Good Delivery 400 oz bars and 11 smaller cast and minted bars:

Cast: 400 oz, 1000 g, 500 g, 250 g, 100 g, 50 g, 20 g

Minted: 50 g, 20 g, 10 g, 5 g, 1 g

#### ACCREDITATION

2007 London Bullion Market Association

#### BACKGROUND

The Moscow Special Alloys Processing Plant, known by this name since 1959, traces its origins back to its establishment near Ploshad Ilyicha in Moscow in 1946.

Since 1965, it has been based at its large precious metals plant in Obrucheva Street on the outskirts of Moscow.

During the USSR period, the company was a major producer of gold products for the jewellery, electronics, decorative and other industries. It has continued to focus on these products, manufacturing approximately 4,500 different precious metal items and servicing more than 1,000 customers throughout the Russian Federation.

The company has operated as a Federal State Unitary Enterprise (FSUE) since 1999. It is owned by the Government of the Russian Federation and supervised by the Ministry of Finance.

#### GOLD REFINING

Although MZSS had previously refined small quantities of gold, a significant gold refinery was established in 2001.

The company has the capacity to refine mine doré (predominantly gold), precipitated gold slimes and most forms of scrap (excluding electronic and dental scrap).

Gold refining methods include wet chemical parting and solvent extraction.

MZSS also manufactures a range of silver, platinum and palladium bars.



MZSS was founded in 1946.



The company opened its new gold refinery in 2001.



MZSS has been accredited to the LBMA under its own name since 2007.



Apart from Moscow, the company has had a representative office in Ekaterinburg since 2007.

Annual gold refining capacity: more than 10 tonnes.

Number of employees: 690

**TECHNICAL DESCRIPTION – CURRENT BARS**

Weight	Type	Fineness	Shape	Dimensions mm	First Issued*	Serial Number System	System Introduced
400 oz	Cast	999.9	Rectangular	254 x 88 x 35 229 x 88 (base)	2002	2 letters Plus 4 numbers Plus year date	2002  2002
1000 g	Cast	999.9	Rectangular	109.5 x 50 x 10.5	2000	2 letters Plus 5 numbers	2007
500 g	Cast	999.9	Rectangular	81.5 x 36 x 9.7	2000	1 letter Plus 5 numbers	2007
250 g	Cast	999.9	Rectangular	57.6 x 30 x 8.2	2000	1 letter Plus 5 numbers	2007
100 g	Cast	999.9	Rectangular	41.7 x 21.8 x 7	2000	1 letter Plus 5 numbers	2007
50 g	Cast	999.9	Rectangular	31 x 16.5 x 6.2	2000	1 letter Plus 5 numbers	2007
20 g	Cast	999.9	Rectangular	25 x 13 x 5	2000	1 letter Plus 5 numbers	2007
50 g	Minted	999.9	Rectangular	36.2 x 21.1 x 4	2000	7 numbers	2000
20 g	Minted	999.9	Rectangular	30 x 16.1 x 2.2	2000	7 numbers	2000
10 g	Minted	999.9	Rectangular	26 x 14.5 x 1.42	2000	7 numbers	2000
5 g	Minted	999.9	Rectangular	22.7 x 14.1 x 0.9	2000	7 numbers	2000
1 g	Minted	999.9	Rectangular	14.2 x 8.9 x 0.85	2007	6 numbers	2000

Source: Moscow Special Alloys Processing Plant. \* In current dimensions and marked with the MZSS official stamp.

**Serial Numbering System**

400 oz: 2 letters in the Cyrillic alphabet: “3C” stands for the Moscow Plant. The 4 numbers represent the serial number. The year date is recorded separately.

Cast bars: 1000 g – 20 g: the letter “M” in the Cyrillic alphabet stands for MZSS. The next letter or number indicates the weight of the bar: 1000 g (M), 500 g (1), 250 g (2), 100 g (3), 50 g (4), 20 g (5). This is followed by a 5-digit serial number for 1,000 g bars and a 4-digit number for bars, 500 g to 20 g.

Minted bars: 7 numbers. The 1st number indicates the weight of the bar: 50 g (4), 20 g (3), 10 g (2), 5 g (1) and 1 g (5). This number is followed by a 6-digit serial number for bars, 50 g to 5 g, and a 5-digit number for the 1 g bar.

While the serial numbering systems are punched onto 400 oz and 1000 g bars, the other cast and minted bars have been marked with a laser since 2000.

**HISTORY OF GOLD BAR MANUFACTURE**

The company manufactured bars prior to the opening of its new refinery in 2001.



The current range of small bars was launched in 2000.



From 1988 until 1990, it is known that 1000 g cast bars were manufactured with the USSR official stamp.

In 2000, the current range of 1000 g, 500 g, 250 g, 100 g, 50 g and 20 g cast bars and 50 g, 20 g, 10 g and 5 g minted bars was launched.

In 2002, 400 oz bars were issued, followed by 1 g minted bars in 2007.

The company has also manufactured customized cast and minted bars for banks since 2002.

**TRADE COMMUNICATION**

**Headquarters**

The Moscow Special Alloys Processing Plant  
31 Ul. Obrucheva, Moscow 117246, Russia

Tel: +7-495-334 9908  
+7-495-334 7722  
Fax: +7-495-334 9277  
Email: mzss@asvt.ru

Website: www.mzss.ru

**EXAMPLES OF GOLD BARS**



Kilobars have been manufactured since 1988.

**OFFICIAL STAMPS**



On 400 oz bars issued by MZSS since 2002, and on small bars since 2000.



National stamp in Russian or English has been applied to bars since 2000.



MZSS has manufactured 400 oz bars, which incorporate its own official stamp, since 2002.





500 g



250 g



100 g



50 g



London Good Delivery 400 oz bar.





**CUSTOMIZED BARS**



Examples of customized minted bars for banks, manufactured since 2002.



MZSS established its large plant in Moscow in 1965.





MZSS manufactures approximately 4,500 different precious metal products, notably for the jewellery, electronics, decorative and dental industries.



MZSS is renowned as a major producer of gold leaf that adorns buildings throughout the Russian Federation.



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