

## LONDON GOOD DELIVERY BARS

INTERNATIONAL

### INTRODUCTION

This supplement covers an extensive range of **London Good Delivery (LGD) 400 oz gold bars**.

Total: 57 LGD bars from 21 countries.

The names of the 72 active LGD bar manufacturers are recorded on the "The Good Delivery List of Acceptable Refiners: Gold", published by the London Bullion Market Association (LBMA).

The supplement will be expanded over time as more information and photographs become available.

For background information, refer to the two introductory sections on "**Accredited Gold Bar Manufacturers**" and "**London Good Delivery Bars**" under "About Gold Bars" on the home page.

### INTERNATIONAL REPRESENTATION

Most refineries, accredited to the LBMA, are now located in the Far East, due mainly to the accreditation of new refineries, notably in China, over the past ten years.

Region	Number LGD Refineries
Far East	26
Europe	16
CIS	12
Americas	11
Middle East & India	5
Africa	1
Australia	1
<b>Total</b>	<b>72</b>

Source: LBMA. July 2014.



Bank of England  
London

LGD 400 oz bars have underpinned gold dealing in the loco-London bullion market since 1919.



Great Wall (China) has manufactured LGD bars since 1961.



In 2014, MMTC-PAMP (India) became the first refiner in India to manufacture LGD bars.



Krastsvetmet (Russia) has manufactured 400 oz bars with its own official stamp since 1997.



**TECHNICAL DESCRIPTION**

Country	Accredited Refiner	Approximate Weight#	Type	Fineness	Approximate Dimensions mm	Accreditation Date##	Illustration Page
<b>EUROPE</b>							
Belgium	Umicore	400 oz	Cast	999.9	215 x 85 x 50 200 x 75 (base)	1930*	5
Germany	Allgemeine (Umicore Group)	400 oz	Cast	999.9	220 x 78 x 50 189 x 53 (base)	2008	5
Germany	Aurubis	400 oz	Cast	999.9	229 x 80 x 42 211 x 62 (base)	2009**	5
Germany	Hafner	400 oz	Cast	999.9	255 x 76 x 39 237 x 59 (base)	2013	5
Germany	Heraeus	400 oz	Cast	995+, 999.9	245 x 82 x 34 230 x 60 (base)	1958	5
Italy	Chimet	400 oz	Cast	999.9	265 x 85 x 39 244 x 64 (base)	1996	6
Netherlands	Schöne (Umicore Group)	400 oz	Cast	999.9	220 x 78 x 50 194 x 55 (base)	1934	6
Spain	SEMPSA	400 oz	Cast	995+	245 x 75 x 42 230 x 55 (base)	1984	6
Sweden	Boliden	400 oz	Cast	995+, 999.9	211 x 86 x 41 205 x 80 (base)	1984	6
Switzerland	Argor-Heraeus	400 oz	Cast	995+	250 x 80.5 x 40 225 x 55 (base)	1961	7
Switzerland	Cendres+Métaux	400 oz	Cast	999.9	255 x 80 x 45 211 x 42 (base)	1981	7
Switzerland	Metalor	400 oz	Cast	995+, 999.9	245 x 87 x 42 213 x 50 (base)	1934	7
Switzerland	PAMP	400 oz	Cast	999.9	250 x 90 x 40 225 x 58 (base)	1987	7
Switzerland	Precinox	400 oz	Cast	999.9	250 x 78 x 39 222.5 x 61 (base)	2012	7
Switzerland	Valcambi	400 oz	Cast	995+, 999.9	252 x 83 x 37 233 x 65 (base)	1968	7
<b>AMERICAS</b>							
Canada	Johnson Matthey	400 oz	Cast	995+, 999.9	260 x 82 x 39 240 x 58 (base)	1961	8
Canada	Royal Canadian Mint	400 oz	Cast	999.9	245 x 80 x 40 245 x 55 (base)	1934*	8
Canada	CCR	400 oz	Cast	999.9	259 x 82 x 34 252 x 76 (base)	1955	8
USA	Johnson Matthey	400 oz	Cast	995+, 999.9	248 x 80 x 41 220 x 57 (base)	1989	8
USA	Metalor	400 oz	Cast	995+, 999.9	270 x 76 x 44 235 x 57 (base)	1991	8
USA	Ohio	400 oz	Cast	999.9	255 x 77 x 43	2013	8
USA	Republic Metals	400 oz	Cast	995+, 999.9	247 x 77 x 38 229 x 62 (base)	2014	8
Brazil	AngloGold Ashanti	400 oz	Cast	995+, 999.9	212 x 95 x 38 195 x 76 (base)	1986	9
Brazil	Umicore	400 oz	Cast	999.9	223 x 76 x 50 198 x 50 (base)	1992	9
Mexico	Met-Mex	400 oz	Cast	999.9	203 x 101 x 41	1991	-
<b>MIDDLE EAST &amp; INDIA</b>							
India	MMTC-PAMP	400 oz	Cast	995+, 999.9	250 x 80 x 40 230 x 62 (base)	2014	9
Turkey	Atasay	400 oz	Cast	999.9	258 x 80 x 39	2010	-
Turkey	Istanbul Gold	400 oz	Cast	995+, 999.9	246 x 76 x 38 228 x 62 (base)	2011	-



Country	Accredited Refiner	Approximate Weight#	Type	Fineness	Approximate Dimensions mm	Accreditation Date##	Illustration Page
<b>FAR EAST</b>							
China	Great Wall	400 oz	Cast	999.9	258 x 80 236 x 56 (base)	1961	10
China	Zijin Mining	400 oz	Cast	999.9	255 x 81 x 37 237 x 57 (base)	2006	10
China	Zhongyuan	400 oz	Cast	999.9	255 x 81 x 37 236 x 57 (base)	2006	10
Hong Kong	Heraeus	400 oz	Cast	995+	255 x 85 x 35 235 x 65 (base)	2006	11
Hong Kong	Metalor	400 oz	Cast	995+, 999.9	256 x 85 x 37 230 x 63 (base)	2007	11
Indonesia	Logam Mulia	400 oz	Cast	999.9	200 x 83 x 43 195 x 75 (base)	1999	11
Japan	Ishifuku	400 oz	Cast	999.9	238 x 82 x 40 222 x 66 (base)	1982	11
Japan	Japan Mint	400 oz	Cast	999.9	245 x 78 x 40 223 x 60 (base)	2008	11
Japan	Matsuda	400 oz	Cast	999.9	260 x 75 x 40 234 x 60 (base)	2000	12
Japan	Mitsubishi	400 oz	Cast	999.9	245 x 80 x 40 235 x 70 (base)	1981	12
Japan	Mitsui	400 oz	Cast	999.9	255 x 77.5 x 35 240 x 60 (base)	1981	12
Japan	Nippon	400 oz	Cast	999.9	230 x 85 x 38 216 x 72 (base)	2000	12
Japan	Sumitomo	400 oz	Cast	999.9	250 x 75 x 38 230 x 60 (base)	1981	12
Japan	Tanaka	400 oz	Cast	995+, 999, 999.9	258 x 82 x 47 230 x 56 (base)	1978	12
Japan	Tokuriki	400 oz	Cast	999.9	260 x 79 x 38 235 x 60 (base)	1981	12
Singapore	Metalor	400 oz	Cast	995+, 999.9	256 x 85 x 37 230 x 63 (base)	2014	13
South Korea	LS-Nikko	400 oz	Cast	999.9	250 x 78 x 52 238 x 56 (base)	1994	13
Taiwan	Solartech	400 oz	Cast	999.9	258 x 80 x 39 236 x 56 (base)	2010	13
<b>AFRICA</b>							
South Africa	Rand Refinery	400 oz	Cast	995+, 999.9	260 x 80 x 40 240 x 60 (base)	1921*	13
<b>AUSTRALIA</b>							
Australia	The Perth Mint	400 oz	Cast	999.9	230 x 80 x 41 204 x 65 (base)	2010**	13
<b>CIS</b>							
Kazakhstan	Kazzinc	400 oz	Cast	999.9	254 x 88 x 35 229 x 59 (base)	1996	13
Russia	Krastsvetmet	400 oz	Cast	999.8, 999.9	254 x 88 x 35 229 x 59 (base)	1999	14
Russia	Novosibirsk	400 oz	Cast	999.5, 999.8, 999.9	254 x 88 x 35 229 x 59 (base)	1999	14
Russia	Prioksky	400 oz	Cast	999.5, 999.8, 999.9	254 x 88 x 35 229 x 59 (base)	1999	14
Russia	Schelkovsky	400 oz	Cast	999.9	254 x 88 x 35 229 x 59 (base)	1999	14



Country	Accredited Refiner	Approximate Weight#	Type	Fineness	Approximate Dimensions mm	Accreditation Date##	Illustration Page
Russia	Ekaterinburg	400 oz	Cast	999.5, 999.8, 999.9	254 x 88 x 35 229 x 59 (base)	1999	10
Russia	Kolyma	400 oz	Cast	999.5, 999.8, 999.9	259 x 93 x 37 233 x 63 (base)	2004	10
Russia	Uralsktromed	400 oz	Cast	999.9	254 x 88 x 35 229 x 59 (base)	2006	10
Russia	Moscow	400 oz	Cast	999.9	254 x 88 x 35 229 x 59 (base)	2007	10

Source: Refiners # Approximate: fine gold weight can range between 350 oz and 430 oz. ## Current dimensions: some dimensions, markings and company names have changed since the year of original accreditation. \* Estimated date. \*\* The Perth Mint: LGD bars have been issued under former names since at least 1928. \*\* Aurubis AG: LGD bars were previously issued under the name, Norddeutsche Affinerie, since at least 1934 until 2009.

**OTHER LONDON GOOD DELIVERY BARS**

Not covered in this supplement.

Country	Refiner	LGD Listing
<b>EUROPE</b>		
Germany	Heimerle & Meule	2014
<b>MIDDLE EAST</b>		
Saudi Arabia	L'azurde	2010
Turkey	Nadir	2011
<b>AMERICAS</b>		
USA	Kennecott	2014
<b>FAR EAST</b>		
China	Inner Mongolia Qiankun	1999
China	Shangdong – Laizhou City	2010
China	Shangdong – Zhaoyuan City	2007
China	Jianxi Copper	2005
China	Sichuan Tianze	2013
Japan	Asahi Pretec	2008
Japan	Nihon Material	2013
Philippines	Bangko Sentral ng Pilipinas	1979
<b>CIS</b>		
Kyrgyz Republic	Kyrgyzaltyn	1999
Uzbekistan	Amalyk Mining	1997
Uzbekistan	Navoi Mining	1994



Rand Refinery (South Africa), operating since 1921, has manufactured more LGD bars than any other refiner.



The Perth Mint (Australia) first manufactured LGD bars from 1934 until 1970 as a Branch of the Royal Mint in England.



Prioksky (Russia) has manufactured LGD bars with its own official stamp since 1999.



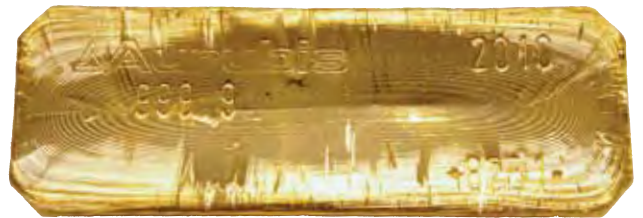
EUROPE



Umicore  
Belgium



Allgemeine  
Germany



Aurubis  
Germany



Hafner  
Germany



Heraeus  
Germany







Chimet  
Italy



Schöne (Umicore Group)  
Netherlands



SEMPASA  
Spain



Boliden  
Sweden





Argor-Heraeus  
Switzerland



Cendres+Métaux  
Switzerland



Metalor  
Switzerland



Precinox  
Switzerland



PAMP  
Switzerland



Valcambi  
Switzerland



AMERICAS



Johnson Matthey  
Canada



CCR  
Canada



Royal Canadian Mint  
Canada



Johnson Matthey  
USA



Metalor  
USA



Ohio  
USA



Republic Metals  
USA







AngloGold Ashanti  
Brazil



Umicore  
Brazil

MIDDLE EAST & INDIA



MMTC-PAMP  
India



FAR EAST



Great Wall  
China



Zijin  
China



Zhongyuan  
China





Heraeus  
Hong Kong



Metalor  
Hong Kong



Logam Mulia  
Indonesia



Ishifuku  
Japan



Japan Mint  
Japan





Mitsubishi  
Japan



Matsuda  
Japan



Mitsui  
Japan



Nippon  
Japan



Sumitomo  
Japan



Tanaka  
Japan



Tokuriki  
Japan





Metalor  
Singapore



LS-Nikko  
South Korea



Solartech  
Taiwan

**AFRICA**



Rand Refinery  
South Africa

**AUSTRALIA**



The Perth Mint  
Australia

**CIS**



Kazinc  
Kazakhstan







LGD bars, manufactured by Russian refiners, have the same shape and similar markings, apart from the official stamp of the refiner.

OFFICIAL STAMPS



Krastsvetmet  
Siberia



Novosibirsk  
Siberia



Prioksky  
Central



Schelkovsky  
Central



Ekaterinburg  
Urals



Kolyma  
Far Eastern



Uralelectromed  
Urals



Moscow  
Central



Krastsvetmet



Moscow



Uralelectromed

Source: The Gokhran of Russia

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