

## SMALLER CAST BARS DENOMINATED IN GRAMS

INTERNATIONAL

This supplement covers standard **smaller cast bars** – that are denominated in **grams** (500 g and less).

They are issued by refiners and issuers, whose “good delivery” bars are accepted by one or more of the associations and exchanges in **London, New York, Tokyo, Dubai and Istanbul**.

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

For background information, refer to the two sections listed under “Basic Information” on the home page: “Smaller Cast Bars”, and “Bar Manufacturers” – **where the accreditation status of each refiner and brand is recorded**.

### SURVEY

At this stage, the survey covers 46 (66%) of the 70 refiners and brands that are accredited to one or more of the five associations and exchanges.

In summary:

- 24 (52%) of the 46 surveyed refiners and issuers issue standard smaller cast bars in grams. In total, 67 bars from 10 countries.
- Many new bars have been issued since 2000: 14 bars (21% of the total) from 5 refiners.
- The most widely manufactured weights are 500 g and 100 g.
- Umicore (Brazil) is the only refiner to issue 25 g and 10 g cast bars.
- Japan is the only country where 300 g and 200 g cast bars are issued.

### RANGE

Region	Refiner or Issuer	Grams								Total
<b>EUROPE</b>										
Belgium	Umicore#	500	-	250	-	-	-	-	-	<b>2</b>
Germany	Commerzbank*	500	-	250	-	100	-	-	-	<b>3</b>
Germany	Heraeus	500	-	250	-	100	-	-	-	<b>3</b>
Spain	SEMPSA	500	-	250	-	100	-	-	-	<b>3</b>
Switzerland	Argor-Heraeus	500	-	250	-	100	-	-	-	<b>3</b>
Switzerland	Cendres+Métaux	500	-	-	-	-	-	-	-	<b>1</b>
Switzerland	Credit Suisse*	500	-	250	-	100	-	-	-	<b>3</b>
Switzerland	Metalor	500	-	250	-	100	-	-	-	<b>3</b>
Switzerland	PAMP	500	-	250	-	100	-	-	-	<b>3</b>
Switzerland	UBS*	500	-	250	-	100	-	-	-	<b>3</b>
Switzerland	Valcambi	500	-	250	-	100	50	-	-	<b>4</b>
<b>AMERICAS</b>										
Brazil	Umicore	-	-	250	-	100	50	25	10	<b>5</b>



Metalor  
Switzerland

Smaller cast bars in grams are issued in 8 known weights, from 10 g to 500 g.



Rand Refinery  
South Africa

The most widely manufactured is the 500 g.



Region	Refiner or Issuer	Grams								Total
<b>MIDDLE EAST</b>										
UAE	Emirates Gold	500	-	250	-	-	-	-	-	<b>2</b>
<b>FAR EAST</b>										
Indonesia	Logam Mulia	-	-	250	-	-	-	-	-	<b>1</b>
Japan	Ishifuku	500	300	-	200	100	50	-	-	<b>5</b>
Japan	Matsuda	500	-	-	200	100	50	-	-	<b>4</b>
Japan	Mitsubishi	500	-	-	-	100	-	-	-	<b>2</b>
Japan	Mitsui	500	-	-	-	-	-	-	-	<b>1</b>
Japan	Nippon	500	-	-	-	-	-	-	-	<b>1</b>
Japan	Sumitomo	500	-	-	-	100	-	-	-	<b>2</b>
Japan	Tanaka	500	300	-	200	100	-	-	-	<b>4</b>
Japan	Tokuriki	500	300	-	200	100	-	-	-	<b>4</b>
<b>AFRICA</b>										
South Africa	Rand Refinery	500	-	-	-	100	-	-	-	<b>2</b>
<b>AUSTRALIA</b>										
Australia	AGR Matthey	500	-	250	-	100	-	-	-	<b>3</b>
<b>TOTALS</b>		<b>22</b>	<b>3</b>	<b>14</b>	<b>4</b>	<b>18</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>67</b>

Source: Refiners and issuers # Umicore's smaller cast bars are manufactured by Schöne (Netherlands), its subsidiary accredited refinery in Amsterdam. \* Commerzbank cast bars are manufactured by Argor-Heraeus, UBS cast bars by Metalor or Argor-Heraeus.

**TECHNICAL DESCRIPTION**

Country	Refiner or Issuer	Weight	Type	Fineness	Shape	Dimensions mm	First Issued*	Illustration Page
Belgium	Umicore	500 g	Cast	999.9	Brick	65 x 35 x 14 57 x 28 (base)	2006	4
Germany	Commerzbank	500 g	Cast	995, 999.9	Rectangular	91 x 41 x 7.6	1999	-
Germany	Heraeus	500 g	Cast	995, 999.9	Rectangular	91 x 41 x 7.6	1995	4
Spain	SEMPSA	500 g	Cast	999.9	Rectangular	77 x 34 x 11	1968	4
Switzerland	Cendres+Métaux	500 g	Cast	999.9	Rectangular	85 x 38 x 9.8	1980	-
Switzerland	Argor-Heraeus	500 g	Cast	995, 999.9	Rectangular	91 x 41 x 7.6	1952	4
Switzerland	Credit Suisse	500 g	Cast	999.9	Rectangular	85.5 x 41.5 x 8	1967	4
Switzerland	Metalor	500 g	Cast	999.9	Rectangular	86 x 38 x 8.5	1965	4
Switzerland	PAMP	500 g	Cast	999.9	Rectangular	90 x 40 x 7.3	1985	4
Switzerland	UBS	500 g	Cast	999.9, 995	Rectangular	91 x 41 x 7.6	1980	-
Switzerland	Valcambi	500 g	Cast	999.9	Rectangular	85 x 40 x 8	2003	-
UAE	Emirates Gold	500 g	Cast	999.9	Rectangular	94 x 42 x 6.98	1997	-
Japan	Ishifuku	500 g	Cast	999.9	Rectangular	83 x 41 x 8	1982	5
Japan	Matsuda	500 g	Cast	999.9	Rectangular	88 x 44 x 8	1991	-
Japan	Mitsubishi	500 g	Cast	999.9	Rectangular	86 x 38 x 8.5	1976	5
Japan	Mitsui	500 g	Cast	999.9	Rectangular	86 x 42 x 8	1982	5
Japan	Nippon	500 g	Cast	999.9	Rectangular	89 x 40.6 x 7.2	1988	-
Japan	Sumitomo	500 g	Cast	999.9	Rectangular	83 x 38 x 8	1982	5
Japan	Tanaka	500 g	Cast	999.9	Rectangular	87 x 44 x 9	1978	5
Japan	Tokuriki	500 g	Cast	999.9	Rectangular	86 x 38 x 8.5	1981	5
South Africa	Rand Refinery	500 g	Cast	995	Rectangular	88 x 39 x 9.8	2005	5
Australia	AGR Matthey	500 g	Cast	999.9	Rectangular	85 x 42 x 6	1998	-
Japan	Ishifuku	300 g	Cast	999.9	Rectangular	64 x 32 x 8	1982	6
Japan	Tanaka	300 g	Cast	999.9	Rectangular	77 x 33 x 6	1978	6
Japan	Tokuriki	300 g	Cast	999.9	Rectangular	65 x 32 x 8	1981	6
Belgium	Umicore	250 g	Cast	999.9	Brick	55 x 25 x 10 50 x 22 (base)	2006	6
Germany	Commerzbank	250 g	Cast	999.9	Rectangular	50 x 30.5 x 9	1999	6
Germany	Heraeus	250 g	Cast	999.9	Rectangular	50 x 30.5 x 9.0	1995	6



Country	Refiner or Issuer	Weight	Type	Fineness	Shape	Dimensions mm	First Issued*	Illustration Page
Spain	SEMPSA	250 g	Cast	999.9	Rectangular	62 x 27 x 8.5	1968	7
Switzerland	Argor-Heraeus	250 g	Cast	999.9	Rectangular	50 x 30.5 x 9	1952	7
Switzerland	Credit Suisse	250 g	Cast	999.9	Rectangular	59.4 x 34.4 x 6.9	1967	-
Switzerland	Metalor	250 g	Cast	999.9	Rectangular	58 x 30 x 8	1965	7
Switzerland	PAMP	250 g	Cast	999.9	Rectangular	60 x 35 x 6.3	1985	7
Switzerland	UBS	250 g	Cast	999.9	Rectangular	50 x 30.5 x 9	1980	-
Switzerland	Valcambi	250 g	Cast	999.9	Rectangular	60 x 33 x 6.8	2003	-
UAE	Emirates Gold	250 g	Cast	999.9	Rectangular	65 x 33 x 6.42	1998	-
Brazil	Umicore	250 g	Cast	999.9	Rectangular	54 x 27 x 11	2006	7
Indonesia	Logam Mulia	250 g	Cast	999.9	Rectangular	58 x 31.3 x 8	2006	-
Australia	AGR Matthey	250 g	Cast	999.9	Rectangular	68 x 32 x 5	1998	-
Japan	Ishifuku	200 g	Cast	999.9	Rectangular	56 x 30 x 7	1982	8
Japan	Matsuda	200 g	Cast	999.9	Rectangular	55 x 29 x 8	1991	-
Japan	Tanaka	200 g	Cast	999.9	Rectangular	48 x 28 x 7	1978	8
Japan	Tokuriki	200 g	Cast	999.9	Rectangular	53 x 28 x 7.5	1982	8
Germany	Commerzbank	100 g	Cast	995, 999, 999.9	Rectangular	44 x 26 x 4.5	1999	8
Germany	Heraeus	100 g	Cast	999.9	Rectangular	45 x 24 x 5.6	2008	8
Spain	SEMPSA	100 g	Cast	999.9	Rectangular	47 x 20 x 6	1968	8
Switzerland	Argor-Heraeus	100 g	Cast	995, 999	Rectangular	44 x 26 x 4.5	1952	8
Switzerland	Credit Suisse	100 g	Cast	999, 999.9	Rectangular	44.8 x 26.5 x 5.2	1967	8
Switzerland	Metalor	100 g	Cast	999, 999.9	Rectangular	45 x 25 x 5	1965	8
Switzerland	PAMP	100 g	Cast	999.9	Rectangular	44 x 26.5 x 4.5	1988	8
Switzerland	UBS	100 g	Cast	999	Rectangular	44 x 26 x 4.5	1980	-
Switzerland	Valcambi	100 g	Cast	999.9, 999, 995	Rectangular	44.8 x 26.5 x 5.2	2003	8
Brazil	Umicore	100 g	Cast	999.9	Rectangular	45.4 x 19.7 x 6.6	2006	8
Japan	Ishifuku	100 g	Cast	999.9	Rectangular	48 x 25 x 6	1982	9
Japan	Matsuda	100 g	Cast	999.9	Rectangular	45 x 25 x 5	1991	-
Japan	Mitsubishi	100 g	Cast	999.9	Rectangular	45 x 25 x 5	1976	9
Japan	Sumitomo	100 g	Cast	999.9	Rectangular	45 x 24 x 5.5	1982	9
Japan	Tanaka	100 g	Cast	999.9	Rectangular	40 x 24 x 6	1978	-
Japan	Tokuriki	100 g	Cast	999.9	Rectangular	45 x 24 x 5	1982	9
South Africa	Rand Refinery	100 g	Cast	999	Rectangular	45 x 27 x 4	1985	9
Australia	AGR Matthey	100 g	Cast	999	Rectangular	44 x 24 x 4	1998	9
Switzerland	Valcambi	50 g	Cast	999.9, 999, 995	Rectangular	30 x 20.5 x 5	2003	10
Brazil	Umicore	50 g	Cast	999.9	Rectangular	33.3 x 15.8 x 6	2006	10
Japan	Ishifuku	50 g	Cast	999.9	Rectangular	30 x 22 x 6	1982	10
Japan	Matsuda	50 g	Cast	999.9	Rectangular	33 x 19 x 5	1991	-
Brazil	Umicore	25 g	Cast	999.9	Rectangular	25.2 x 14.4 x 4.7	2006	10
Brazil	Umicore	10 g	Cast	999.9	Rectangular	10.3 x 17.1 x 4.3	2006	10

Source: Refiners and issuers \* First issued in current dimensions: the markings on some bars, and some company names, have changed over time.



500 g

Apart from one, the 500 g bars are not in actual size.



Heraeus  
Germany  
Actual size



Umicore  
Belgium



SEMPSA  
Spain



Argor-Heraeus  
Switzerland



Credit Suisse  
Switzerland



PAMP  
Switzerland



Metalor  
Switzerland





Ishifuku  
Japan



Mitsubishi  
Japan



Mitsui  
Japan



Sumitomo  
Japan



Tanaka  
Japan



Tokuriki  
Japan



Rand Refinery  
South Africa



300 g



Ishifuku  
Japan



Tanaka  
Japan



Tokuriki  
Japan

250 g



Umicore  
Belgium



Commerzbank  
Germany



Heraeus  
Germany





SEMPSA  
Spain



Argor-Heraeus  
Switzerland



Credit Suisse  
Switzerland



Metalor  
Switzerland



PAMP  
Switzerland



Umicore  
Brazil



200 g



Ishifuku  
Japan



Tanaka  
Japan



Tokuriki  
Japan

100 g



Commerzbank  
Germany



Heraeus  
Germany



SEMPSA  
Spain



Argor-Heraeus  
Switzerland



Metalor  
Switzerland



PAMP  
Switzerland



Valcambi  
Switzerland







Umicore  
Brazil



Ishifuku  
Japan



Mitsubishi  
Japan



Sumitomo  
Japan



Tanaka  
Japan



Tokuriki  
Japan



AGR Matthey  
Australia



Rand Refinery  
South Africa



50 g



Valcambi  
Switzerland



Umicore  
Brazil



Ishifuku  
Japan

25 g



Umicore  
Brazil

10 g



Umicore  
Brazil



50 g cast bars manufactured by  
Heraeus (Germany)



**REFINERS THAT DO NOT ISSUE SMALLER CAST BARS**

The 22 accredited refiners listed below are understood not to manufacture smaller cast bars in grams:

Region	Refiner
<b>EUROPE</b>	
Germany	Norddeutsche
Italy	Chimet
Sweden	Boliden
<b>NORTH AMERICA</b>	
Canada	Xstrata
Canada	Johnson Matthey
Canada	Royal Canadian Mint
USA	ASARCO
USA	Heraeus*
USA	Johnson Matthey
USA	Kennecott
USA	Metalor
USA	Sabin
<b>LATIN AMERICA</b>	
Brazil	AngloGold Ashanti
<b>MIDDLE EAST</b>	
Turkey	Istanbul Gold
<b>FAR EAST</b>	
Hong Kong	Heraeus*
Hong Kong	Metalor
Japan	Chugai
Japan	Dowa
South Korea	LS Nikko
South Korea	Korea Zinc
<b>AFRICA</b>	
Zimbabwe	Fidelity
<b>CIS</b>	
Kazakhstan	Kazzinc

Source: Refiners \* Heraeus (USA and Hong Kong) have access to Heraeus Group smaller cast bars.

Refer to disclaimer on website: [www.goldbarsworldwide.com](http://www.goldbarsworldwide.com)

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