

## Years 2000 - 2005 Primary Magnesium Production

The U.S. Geological Survey estimated that 157,000 tons of primary magnesium metal was produced throughout the world in 2005, which did not include the United States and China.

The China Magnesium Association reported that 470,000 tons of primary magnesium was produced in 2005.

Detail written in the U.S. Geological Survey indicated that the U.S. produces approximately 43,000 tons of primary magnesium annually.

Thus, total 2005 production of primary magnesium in the world was approximately 670,000 tons.

### Years 2000 - 2005 (000's of Tons)

	2000	2001	2002	2003	2004	2005
<b>USA</b>	74(b)	43(b)	35(b)	43(b)	43(b)	43(a)
<b>Brazil</b>	9(b)	9(b)	7(b)	6(b)	11(b)	6(a)
<b>Canada</b>	55(b)	65(b)	86(b)	50(b)	55(b)	54(a)
<b>China</b>	218(b)	195(b)	232(b)	354(c)	450(d)	470(d)
<b>France</b>	17(b)	7(b)	0(b)	0(b)	0(b)	0(a)
<b>Israel</b>	2(b)	30(b)	34(b)	30(b)	33(b)	28(a)
<b>Kazakhstan</b>	10(b)	10(b)	10(b)	14(b)	14(b)	20(a)
<b>Norway</b>	50(b)	35(b)	10(b)	0(b)	0(b)	0(a)
<b>Russia</b>	40(b)	50(b)	52(b)	45(b)	45(b)	45(a)
<b>Ukraine</b>	2(b)	2(b)	0(b)	0(b)	0(b)	2(a)
<b>Serbia</b>	2(b)	2(b)	2(b)	2(b)	4(b)	2(a)
<b>Total</b>	<b>479</b>	<b>448</b>	<b>468</b>	<b>544</b>	<b>655</b>	<b>670</b>
<b>Annual Change</b>		<b>(-6%)</b>	<b>+4%</b>	<b>+16%</b>	<b>+20%</b>	<b>+2%</b>

### **Production Summary:**

**Production of primary aluminum was 39% greater in 2005 than in 2000 (Pre 9/11). This is an average growth of 7% annually, which is reasonable for the last 5 years.**

**Chinese production doubled over the past 5 years, mainly at the expense of the United States, France and Norway. Production decreased 98,000 tons in the three countries mentioned, while Chinese production increased 250,000 tons. Production in the other countries remained about the same, with the exception of Israel, where production grew to approximately 30,000 tons over the past 5 years.**

### **Organic Growth in China**

**The additional 250,000 tons of magnesium that China is producing can be divided into two categories: 98,000 tons (39%) production shifted from other countries and 152,000 (61%) of real organic growth. The 152,000 tons is a 70% increase over the base year of 2000 (218,000 tons), which is an average growth rate of 11% annually.**

### **Production Source Documents:**

- (a) U. S. Geological Survey, 2005 - Revised Jan. 2007
- (b) Mining Journal Annual Review for 2004; MAGNESIUM by Robert E. Brown; Magnesium Monthly Review
- (c) Same number reported by the Mining Journal Annual Review and the China Magnesium Association
- (d) China Magnesium Association