



Specification of the Aluminum Ingots

1	Name of the Products	Primary aluminium ingots																																																																																																																																																																																																															
2	Origin	Russian Federation.																																																																																																																																																																																																															
3	Quality	<p style="text-align: center;">Chemical compound of aluminium primary in accordance with GOST 11069-2001</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Mark</th> <th rowspan="2">Al, % % no more</th> <th colspan="9">Impurity, % no more</th> </tr> <tr> <th>Si</th> <th>Fe</th> <th>Cu</th> <th>Mg</th> <th>Mn</th> <th>Zn</th> <th>Ga</th> <th>Ti</th> <th>The other</th> </tr> </thead> <tbody> <tr> <td colspan="11" style="text-align: center;">Aluminium of high cleanliness</td> </tr> <tr> <td>A995</td> <td>99,995</td> <td>0,0150</td> <td>0,0015</td> <td>0,0010</td> <td>0,0010</td> <td>0,0010</td> <td>0,0010</td> <td>0,0030</td> <td>0,0010</td> <td>0,0010</td> </tr> <tr> <td>A99</td> <td>99,990</td> <td>0,0030</td> <td>0,0030</td> <td>0,0020</td> <td>0,0200</td> <td>0,0010</td> <td>0,0030</td> <td>0,0030</td> <td>0,0020</td> <td>0,0010</td> </tr> <tr> <td>A98</td> <td>99,980</td> <td>0,0060</td> <td>0,0060</td> <td>0,0020</td> <td>0,0020</td> <td>0,0020</td> <td>0,0030</td> <td>0,0030</td> <td>0,0020</td> <td>0,0010</td> </tr> <tr> <td>A97</td> <td>99,970</td> <td>0,0150</td> <td>0,0150</td> <td>0,0050</td> <td>0,0020</td> <td>0,0050</td> <td>0,0030</td> <td>0,0030</td> <td>0,0020</td> <td>0,0020</td> </tr> <tr> <td>A95</td> <td>99,950</td> <td>0,0200</td> <td>0,0200</td> <td>0,0100</td> <td>0,0020</td> <td>0,0050</td> <td>0,0050</td> <td>0,0030</td> <td>0,0020</td> <td>0,0050</td> </tr> <tr> <td colspan="11" style="text-align: center;">Aluminium of technical cleanliness</td> </tr> <tr> <td>A85</td> <td>99,850</td> <td>0,0600</td> <td>0,0800</td> <td>0,0100</td> <td>0,0200</td> <td>0,0200</td> <td>0,0200</td> <td>0,0300</td> <td>0,0080</td> <td>0,0200</td> </tr> <tr> <td>A8</td> <td>99,800</td> <td>0,1000</td> <td>0,1200</td> <td>0,0100</td> <td>0,0200</td> <td>0,0200</td> <td>0,0400</td> <td>0,0300</td> <td>0,0100</td> <td>0,0200</td> </tr> <tr> <td>A7</td> <td>99,700</td> <td>0,1500</td> <td>0,1600</td> <td>0,0100</td> <td>0,0300</td> <td>0,0200</td> <td>0,0400</td> <td>0,0300</td> <td>0,0100</td> <td>0,0200</td> </tr> <tr> <td>A7E</td> <td>99,700</td> <td>0,0800</td> <td>0,2000</td> <td>0,0100</td> <td>-</td> <td>0,0200</td> <td>0,0400</td> <td>0,0300</td> <td>0,0100¹⁾</td> <td>0,0200</td> </tr> <tr> <td>A7E</td> <td>99,700</td> <td>0,1000</td> <td>0,2000</td> <td>0,0100</td> <td>0,0300</td> <td>-</td> <td>0,0300</td> <td>0,0400</td> <td>0,0100²⁾</td> <td>0,0300</td> </tr> <tr> <td>A6</td> <td>99,600</td> <td>0,1800</td> <td>0,2500</td> <td>0,0100</td> <td>0,0300</td> <td>0,0300</td> <td>0,0500</td> <td>0,0300</td> <td>0,0200</td> <td>0,0300</td> </tr> <tr> <td>A5E</td> <td>99,500</td> <td>0,1000</td> <td>0,3500³⁾</td> <td>0,0200</td> <td>-</td> <td>0,0300</td> <td>0,0400</td> <td>0,0300</td> <td>0,0150¹⁾</td> <td>0,0200</td> </tr> <tr> <td>A5</td> <td>99,500</td> <td>0,2500</td> <td>0,3500</td> <td>0,0200</td> <td>0,0500</td> <td>0,0300</td> <td>0,0600</td> <td>0,0300</td> <td>0,0200</td> <td>0,0300</td> </tr> <tr> <td>A35</td> <td>99,350</td> <td>0,6500</td> <td>Si+Fe⁴⁾</td> <td>0,0500</td> <td>0,0500</td> <td>0,0500</td> <td>0,1000</td> <td>-</td> <td>0,0200</td> <td>0,0300</td> </tr> <tr> <td>A0</td> <td>99,00</td> <td>0,9500</td> <td>Si+Fe⁴⁾</td> <td>0,0500</td> <td>0,0500</td> <td>0,0500</td> <td>0,1000</td> <td>-</td> <td>0,0200</td> <td>0,0300</td> </tr> </tbody> </table> <p>Notes:</p> <p>1) - for the sum of the titan, vanadium, chrome and manganese. 2) - a mass fraction of vanadium no more than 0,03 % 3) - an admissible mass fraction of iron not less than 0,18 % 4) - in document about quality actual value of a mass fraction of iron and silicon separately is underlined.</p> <p>In the aluminium of mark A5E intended for manufacturing <i>каманку</i> of mark AKLP-PT in accordance with GOST 13843, the mass fraction of silicon no more than 0,12 % is supposed.</p> <p>In aluminium of mark A5E at a mass fraction of impurity of the titan, vanadium, manganese and chrome no more than 0,01 % the mass fraction of silicon to 0,15 % is supposed.</p>	Mark	Al, % % no more	Impurity, % no more									Si	Fe	Cu	Mg	Mn	Zn	Ga	Ti	The other	Aluminium of high cleanliness											A995	99,995	0,0150	0,0015	0,0010	0,0010	0,0010	0,0010	0,0030	0,0010	0,0010	A99	99,990	0,0030	0,0030	0,0020	0,0200	0,0010	0,0030	0,0030	0,0020	0,0010	A98	99,980	0,0060	0,0060	0,0020	0,0020	0,0020	0,0030	0,0030	0,0020	0,0010	A97	99,970	0,0150	0,0150	0,0050	0,0020	0,0050	0,0030	0,0030	0,0020	0,0020	A95	99,950	0,0200	0,0200	0,0100	0,0020	0,0050	0,0050	0,0030	0,0020	0,0050	Aluminium of technical cleanliness											A85	99,850	0,0600	0,0800	0,0100	0,0200	0,0200	0,0200	0,0300	0,0080	0,0200	A8	99,800	0,1000	0,1200	0,0100	0,0200	0,0200	0,0400	0,0300	0,0100	0,0200	A7	99,700	0,1500	0,1600	0,0100	0,0300	0,0200	0,0400	0,0300	0,0100	0,0200	A7E	99,700	0,0800	0,2000	0,0100	-	0,0200	0,0400	0,0300	0,0100 ¹⁾	0,0200	A7E	99,700	0,1000	0,2000	0,0100	0,0300	-	0,0300	0,0400	0,0100 ²⁾	0,0300	A6	99,600	0,1800	0,2500	0,0100	0,0300	0,0300	0,0500	0,0300	0,0200	0,0300	A5E	99,500	0,1000	0,3500 ³⁾	0,0200	-	0,0300	0,0400	0,0300	0,0150 ¹⁾	0,0200	A5	99,500	0,2500	0,3500	0,0200	0,0500	0,0300	0,0600	0,0300	0,0200	0,0300	A35	99,350	0,6500	Si+Fe ⁴⁾	0,0500	0,0500	0,0500	0,1000	-	0,0200	0,0300	A0	99,00	0,9500	Si+Fe ⁴⁾	0,0500	0,0500	0,0500	0,1000	-	0,0200	0,0300
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