

102.1 - Aluminum Base Alloys (chip and disk forms)

These SRMs are intended for analyses of aluminum alloys by chemical and instrumental methods. SRM 2426 is a hot-dip coating alloy for sheet steel applications.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Description >>	87a	853a	854a	855a	856a	858	1240c	1241c	1255b	1256b	1258-J	1259	2426
Unit of Issue >>	Silicon-Aluminum Alloy	Aluminum Alloy 3004 (chip form)	Aluminum Alloy 5182 (chip form)	Aluminum Casting Alloy 356	Aluminum Casting Alloy 380	Aluminum Alloy 6011	Aluminum Alloy 3004 (disk form)	Aluminum Alloy 5182 (disk form)	Aluminum Alloy 356 (disk form)	Aluminum Alloy 380	Aluminum Alloy 6011 (Modified) (disk form)	Aluminum Alloy 7075	55 % Aluminum-Zinc Alloy
	75 g	25 g	25 g	30 g	30 g	35 g	disk	disk	disk	disk	disk	disk	40 g

Concentration are expressed as mass fraction, in %.

Aluminum														58.18
Beryllium							<i>0.000011</i>							0.0025
Cadmium			(0.0006)				<i>0.00065</i>		<i>0.00062</i>					
Calcium				(0.001)	(0.002)									
Chromium	0.11	0.504	0.0340	0.013	0.060	0.0011	<i>0.00054</i>	0.0343	<i>0.0150</i>	0.0572	<i>0.0011</i>		0.173	
Copper	0.30	0.1504	0.0494	0.13	3.50	0.84	0.1484	0.0497	0.1161	3.478	0.848		1.60	
Gallium	0.020	0.0176	<i>0.0185</i>				0.0181	0.0184	0.0175	<i>0.0183</i>	(0.011)		(0.022)	
Iron	0.61		0.1990	0.14	0.85	0.078	0.501	0.1997	0.1170	0.865	0.080		0.205	0.454
Lead	0.093			0.019	0.11		(0.0009)	<i>0.00052</i>	0.0182	0.1075				
Magnesium	0.37	1.092	4.474	0.37	0.063	1.01	1.110	4.498	0.3822		1.00		2.48	
Manganese	0.26	1.251	0.3753	0.060	0.35	0.48	1.268	0.3792	0.0527	0.3857	0.481		0.079	
Nickel	0.57	0.00429	0.0195	0.016	0.37	0.0006	0.00434	0.0198	0.0179	0.4135	<i>0.0006</i>		0.063	
Silicon	6.24	0.1810	0.1553	7.07	9.21	0.79	0.1804	7.298	0.1544	9.362	0.80		0.18	1.925
Strontium			(0.0002)	0.018	0.018			(0.0002)	0.0164	0.0188				
Tin	0.057	(0.0003)		0.010	0.10		(0.0004)	(0.0002)	0.1334	<i>0.0091</i>				
Titanium	0.18	0.0205	0.0335	0.15	0.065	0.042	0.0218	0.0317	0.1477	0.0877	<i>0.040</i>		(0.04)	
Vanadium		0.01842	0.0174	(0.012)	(0.014)	0.0030	0.01850		0.0316	0.0212				
Zinc	0.16	0.0514	0.0505	0.085	0.96	1.04	0.0514	0.0506	0.0842	1.011	1.03		5.44	38.92
Zirconium		0.0023		(0.003)	(0.003)		<i>0.0023</i>	(0.002)						

- Certified values are normal font
- Non-certified or reference values are italicized
- Non-certified values in parentheses are for information only