Metal Discs - Iron Base - Cast Iron

Iron Base | Cast Iron | Low Alloy | Ductile

Ductile	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	B	Ce	Co	Mg	Nb	Pb	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%	2.86	0.52	0.087	0.017	1.15	0.192	2.17	0.643	0.86	0.007			0.016		0.032				(0.04)	0.019		Ø31x19mm	CRM Chill Cast	
%	3.76	0.98	0.27	(0.0006)	1.67	1.55	0.146	0.322	0.155	(0.09)		(0.01)	0.036	(0.02)	0.058				0.1	0.048		Ø31x19mm	CRM Chill Cast	
%	3.66	0.91	0.246	(<0.001)	1.59	1.61	0.147	0.322	0.159	(0.08)		(0.01)	0.031	(0.01)	0.076				0.1	0.043		Ø31x19mm	CRM Chill Cast	
%	2.68	0.268	0.041	0.024	3.37	0.125	0.061	0.13	0.019	(<0.01)		(0.002)	0.0046	(0.05)	0.006				0.05	0.083		Ø31x19mm	CRM Chill Cast	
%	2.76	0.207	0.034	0.016	3.3	0.099	0.045	0.15	0.019	(<0.01)		(0.001)	0.0053	(0.05)	0.014				0.045	0.081		Ø32x17mm	RM Chill Cast	
%	2.88	0.22	0.034	0.001	2.15	0.009	1.04	0.068	0.002	0.02			0.006	0.001	0.095	0.036		(<0.001)	0.01	0.006		Ø65x5mm (2)	RM Chill Cast	
%		3 0.365	0.013			4 0.035	0.065	0.036	0.752						0.006							Ø65x5mm (2)	RM Chill Cast	
%	(2.9)	0.35	0.026		3.9	0.036	0.6	0.038	1.04	1.4				(0.03)	0.03							Ø65x5mm (2)	RM Chill Cast	
%	3.2	0.615	0.05		4.1	0.0325	0.066	0.1	0.604	1.1				0.03	0.07							Ø65x5mm (2)	RM Chill Cast	
%	3.1	0.3	0.02		4.4	0.06	0.3	0.09	0.4						0.12				0.018	0.017		Ø31x19mm	CRM Chill Cast	

Iron Base | Cast Iron | High Alloy | Ductile

High Cr	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	B	Ce	Co	Mg	Nb	Pb	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%	3.04	0.66	0.03	0.013	0.971	0.065	0.917	30.5	(0.041)											0.442		Ø31x19mm	CRM Chill Cast	
%	3.47	0.55	0.049	0.016	0.59	0.36	5.04	11.4	0.25											0.041		Ø40x15mm	RM Cast	
%	2.2	0.25			0.3				31													Ø40x15mm	RM Cast	
%	2.6	0.75			0.75				28													Ø40x15mm	RM Cast	
%		3 1.25			1.5				25													Ø40x15mm	RM Chill Cast	
%	2.8		1 0.05	0.05		2			8													Ø40x15mm	RM Chill Cast	
%	3.4		1 0.4	0.15	1.5			7	8													Ø40x15mm	RM Chill Cast	
%	3.1	0.5		(<0.01)	1.75			4	7													Ø40x15mm	RM Chill Cast	
%	3.1	0.5			1.75			5 8.4														Ø40x15mm	RM Chill Cast	
%	3.1	0.5		0.01	(0.01)			5	9													Ø43x5mm (x2)	RM Chill Cast	
%	2.45	0.6	0.019	0.007	0.45	0.031	1.3	18.71	1.41													Ø43x5mm (x2)	RM Chill Cast	
%	2.8	0.75	0.137	0.055	1.07	0.135	1.87	11.8	3.88													Ø43x5mm (x2)	RM Chill Cast	
%	2.03	0.99	0.034	0.035	0.255	0.049	0.652	14.85	0.91													Ø43x5mm (x2)	RM Chill Cast	
%	2.45	2.05	0.097	0.066	1.4	1.32	0.57	24.2	2.16													Ø43x5mm (x2)	RM Chill Cast	
%	3.43	0.55	0.052	0.0175	0.3	1.02	2.69	28.5	3.27													Ø43x5mm (x2)	RM Chill Cast	
%	1.4	1.4	0.2	0.086	0.75	0.48	0.19	30.8	0.45													Ø43x5mm (x2)	RM Chill Cast	
%	2.98	0.9	0.06	0.105	1.35	2.98	1.38	0.83	1.45													Ø43x5mm (x2)	RM Chill Cast	
%	2.5	1.04	0.047	0.058	1.81	1.02	1.78	1.26	1.01													Ø43x5mm (x2)	RM Chill Cast	
%	3.47	0.175	0.36	0.024	0.85	0.031	2.53	1.76	0.73													Ø43x5mm (x2)	RM Chill Cast	
%	2.84	0.28	0.12	0.022	0.49	0.09	3.6	2.46	0.3													Ø43x5mm (x2)	RM Chill Cast	
%	2.31	0.24	0.115	0.04	0.31	0.035	4.9	2.85	0.017													Ø43x5mm (x2)	RM Chill Cast	
%	2.7	0.355	0.066	0.036	2.28	0.115	7.06	6.6	0.11													Ø43x5mm (x2)	RM Chill Cast	
%	3.43	0.63	0.035	0.022	0.95	0.105	5.53	9.02														Ø43x5mm (x2)	RM Chill Cast	
%	2.98	0.57	0.052	0.076	0.8	0.065	8.16	5.03	0.125													Ø43x5mm (x2)	RM Chill Cast	
%	3.13	0.65	0.087	0.029	1.24	0.203	4.11	11.7	0.059													Ø40x15mm	RM Chill Cast	

High Ni	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	B	Ce	Co	Mg	Nb	Pb	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%	2.74	1.74	0.075	0.14	2.02	7.7	13.5	0.45	0.1	0.04							0.02	0.03				Ø40x15mm	RM Chill Cast	
%	2.6	1.6	0.05	0.1	2.15		7 15.5	1.02	0.05	0.04							0.01	0.02				Ø40x15mm	RM Chill Cast	
%	2.33	1.02	0.04	0.05	1.35	6.05	17.7	1.54	0.04	0.03							(<0.005)	0.005				Ø40x15mm	RM Chill Cast	
%	2.12	0.72	0.01	0.01	1.22		18.1	4.95	(<0.005)	(<0.005)							(<0.005)	(<0.005)				Ø40x15mm	RM Cast	
%	2.82	0.72	0.09	0.27	1.2	7.46	12.8	0.45	0.096	(0.006)							0.02	0.08				Ø40x15mm	RM Chill Cast	
%		3 0.5		0.15		1		22 1.5														Ø40x15mm	RM Chill Cast	
%	3		1 0.05	0.05		2 0.25		20		2												Ø40x15mm	RM Chill Cast	
%	3 1.5	0.15		(<0.01)		3 0.5		18 2.5														Ø40x15mm	RM Chill Cast	
%	2.8	1.5				3 0.05		17 2.5														Ø40x15mm	RM Chill Cast	
%	2.8	0.5				1 0.25		19 2.5														Ø40x15mm	RM Chill Cast	
%	2.5		1		2.5	0.5		21 2.5														Ø40x15mm	RM Chill Cast	
%	2.8		1		2.5	0.25		19	1													Ø40x15mm	RM Chill Cast	
%		3	1		2.5	0.25		19 3.5														Ø40x15mm	RM Chill Cast	
%	2.8		1		4.5	0.25		19 4.5														Ø40x15mm	RM Chill Cast	
%	2.8		1		5.5	0.25		19 4.5														Ø40x15mm	RM Chill Cast	
%	2.5		1			3 0.25		32 0.2														Ø40x15mm	RM Chill Cast	
%	2.5		1			3 0.25		32 0.25														Ø40x15mm	RM Chill Cast	
%	2.6		1			3 0.25		32 4.5														Ø40x15mm	RM Chill Cast	
%	2.5		1			3 0.25		32 5.5														Ø40x15mm	RM Chill Cast	
%	2.4	1.5				1 0.05		36 3.5														Ø40x15mm	RM Chill Cast	
%	2.5	0.5				6 0.25		28 3.5														Ø45x5mm (x2)	RM Chill Cast	
%	2.5	1.34	0.125	0.1	2.99	0.49	25.87	1.74														Ø43x5mm (x2)	RM Chill Cast	
%	2.58	1.54	0.19	0.0015	3.02	0.11	20.6		2													Ø43x5mm (x2)	RM Chill Cast	
%	2.32	0.53	0.062		1.43	0.21	36.3	0.51														Ø45x5mm (x2)	RM Chill Cast	
%	2.39	0.72	0.088	0.052	3.04	0.26	21.58	2.97														Ø43x5mm (x2)	RM Chill Cast	
%	2.92	0.77	0.024		2.91	0.33	24.63	3.05														Ø45x5mm (x2)	RM Chill Cast	
%	2.41	1.495	0.155	0.014	5.89	0.758	15.9	1.403														Ø43x5mm (x2)	RM Chill Cast	
%	2.47	1.71	0.145		4.87	0.63	16.3	1.5														Ø45x5mm (x2)	RM Chill Cast	
%	1.77	1.207	0.037	0.083	2.99	0.48	33.89	0.27														Ø43x5mm (x2)	RM Chill Cast	
%	1.67	1.23	0.035	1.97		0.5	27.05	0.24														Ø45x5mm (x2)	RM Chill Cast	
%	1.76	0.7	0.031	0.063	2.07	0.02	30.37	3.49														Ø43x5mm (x2)	RM Chill Cast	
%	1.815	0.99	0.019		2.44	0.03	30.75	1.06														Ø45x5mm (x2)	RM Chill Cast	
%	2.89	5.19	0.054	0.025	1.74	0.075	13.33	0.165														Ø43x5mm (x2)	RM Chill Cast	
%	3.05	4.39	0.124		1.41	0.071	14.2	0.191														Ø43x5mm (x2)	RM Chill Cast	
%	3.1	1.5	0.17	0.09		1	5	18	1													Ø43x5mm (x2)	RM Chill Cast	
%	2.52	1.07	0.115	0.049	2.07	6.5	15.9	2.05														Ø43x5mm (x2)	RM Chill Cast	
%	1.94	0.6	0.046	0.016	3.12	8.05	13.3	3.5														Ø43x5mm (x2)	RM Chill Cast	

High Cr, Ni	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	B	Ce	Co	Mg	Nb	Pb	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%	1.27	0.71	0.41	0.06	1.63	0.02	16.5	26.2														Ø63x5mm (x2)	RM Chill Cast	
%	1.98	0.6	0.185	0.024	1.5		13.05		29													Ø43x5mm (x2)	RM Chill Cast	
%	2.74	0.46	0.036	0.011	0.87		11.05	31.65														Ø38-47x13mm	RM Cast	

Iron Base | Cast Iron | Others | Grey

Grey	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	B	Ce	Co	Mg	Nb	Pb	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%	3.24	0.8	0.042	0.044	2.29	0.23	0.156	0.088	0.042	0.006	(0.003)			0.006				0.093	0.017	0.007		Ø38-47x13mm	RM Cast	
%	3.33	0.58	0.028	0.029	3.02	0.54	0.38	0.086	0.19	0.008				0.022				0.12	0.012	0.018		Ø38-47x13mm	RM Cast	
%	3.21	0.68	0.06	0.025	2.47	0.56	0.28	0.117	0.21	0.004	0.004			0.013				0.058	0.019	0.013		Ø38-47x13mm	RM Cast	
%	3.22	0.63	0.032	0.044	2.82	0.067	0.14	0.079	0.033	0.008	(0.004)			0.08				0.099	0.018	0.017		Ø38-47x13mm	RM Cast	
%	3.25	0.62	0.047	0.034	2.72	0.35	0.096	0.094	0.053	0.005	0.004			0.006				0.104	0.015	0.007		Ø38-47x12mm	RM Cast	
%	3.27	0.62	0.045	0.036	2.64	0.29	0.082	0.092	0.054	0.004	0.004			0.005				0.096	0.015	0.007	/Y	Ø50x13mm	RM Chill Cast	

White/Grey	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	B	Ce	Co	Mg	Nb	Pb	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%	2.6	0.6	0.08	0.05	2.5	0.1	0.3	1.7	0.07	0.03	0.1			0.01				0.03	0.04	0.1	/Y	Ø50x13mm	RM Chill Cast	
%	2.6	0.6	0.08	0.05	2.5	0.1	0.3	1.7	0.07	0.03	0.1			0.01				0.03	0.04	0.1		Ø40x40mm	SUS Chill Cast	

Iron Base | Cast Iron | Setting-Up Samples (SUS) | Ductile

	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	B	Ce	Co	Mg	Nb	Sb	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%		3	1 0.3	0.1		2 0.5	0.6	0.6	0.3	0.02								0.2	0.04	0.3		Ø40x40mm	SUS Chill Cast	
%		3 0.2	0.02	0.005		2 0.05		0.05		0.1					0.04			0.2		0.03		Ø40x40mm	SUS Chill Cast	
%	2.3	0.8	0.3	0.1		4 0.5	0.5	0.6	0.8	0.02								0.1				Ø40x40mm	SUS	
%	3.5	1.3	0.3	0.13	2.1	0.6	0.9	0.6	0.5	0.037								0.17	0.07	0.5		Ø40x40mm	SUS	
%		3 0.3	0.026	0.001		3 0.08		2 1.5	0.004	0.06	0.03	0.037		0.6	0.08	0.3	0.06	0.04	0.007	0.03		100g	CRM	

Iron Base | Cast Iron | Others | Powder

	C	S	Others/Set Only	Size	Type	Alloy
%	3.62	0.076		100g	CRM	
%	4.33	0.0101		100g	CRM	
%	4.16	0.0344		100g	CRM	
%	3.81	0.034		100g	CRM	
%	3.05	0.04		100g	CRM	
%	2.62	0.025		100g	CRM	
%	2.85	0.0195		100g	CRM	
%	3.84	0.122		100g	RM	
%	3.62	0.0206		100g	RM	
%	4.378	0.0017		100g	RM	

Iron Base | Cast Iron | C, S, N, O, H Only | Other

Various	C	S	Others/Set Only	Size	Type	Alloy
%	0.0674	0.403		100g	RM	

Iron Base | Cast Iron | Others | Powder

	C	S	Others/Set Only	Size	Type	Alloy
%	4.38	0.0003		Ø35-40x30mm+	RM Chill Cast	Pig Iron

Control Chart Samples	Al	C	Cr	Cu	Mn	Mo	Ni	P	Pb	S	Si	Sn	Ti	V	Others/Set Only	Size	Type	Alloy
%	0.1	4 0.1	0.1	0.3	0.1	0.1	0.1	0.1		0.03	0.8	0.04		0.1		Ø40x30mm+	RM	GG Grey
%	<0.002	3.3	0.12	0.52	0.56	0.03	0.08	0.065	<0.002	0.075	2.9	0.014	0.019	0.015		Ø40x30mm+	RM	GGG Grey
%	0.015	3.7	0.03	0.14	0.07	<0.01	0.05	0.015	<0.001	0.005	3.1	0.003	0.01	0.018		100g	CRM	

	Al	As	C	C(gr)	Co	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%			3.58						0.527				0.2	0.067	2.75				80g	CRM	
%			2.11			0.02	0.04		0.272			0.021	0.012	0.019	0.78				150g	CRM	
%			3.41				0.109		0.463				0.193	0.008	3.82	0.151			150g	CRM	
%			2.02				0.063		0.528				0.0226	0.08	0.378	0.0094			100g	CRM	
%			3.16		0.033	0.03	0.065		0.335			0.027	0.066	0.103	0.461	0.225	0.56		100g	CRM	

Iron Base | Cast Iron | Ductile | Other

	C	Co	Cr	Cu	Mg	Mn	Ni	P	Re	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%	2.855	0.036	0.0433	0.046	0.036	0.977	0.032	0.05	0.04	0.021	2.615	0.106	0.536		100g	CRM	Pig Iron

Main Base | Cast Iron | Chips

	C	Co	Cr	Cu	Mg	Mn	Ni	P	Re	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%	2.486	0.035	0.0425	0.044	0.0106	0.734	0.03	0.08	0.0185	0.015	2.529	0.096	0.394		150g	CRM	

Main Base | Cast Iron | C & S Only | Chips

C & S Only	C	S	Others/Set Only	Size	Type	Alloy
%	3.55	0.016		150g	CRM	
%	3.82	0.038		150g	CRM	
%	4.11	0.054		150g	CRM	
%	4.06	0.031		150g	CRM	
%	3.38	0.066		150g	CRM	

Main Base | Cast Iron | Others | Chips

	Al	As	C	C(gr)	Co	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%			2.88											0.142					100g	CRM	
%		0.0156	2.747			0.0366	0.0996		0.75	(0.0014)		0.0358	0.0691	0.1105	1.752	0.0311	0.012		100g	CRM	
%		(0.025)	(2.53)	(1.96)			(0.07)		1.16			(0.21)	0.046	0.068		2 0.052			100g	CRM	
%		0.0145	3.39			0.0648	0.2445		0.987		0.0038	0.0549	0.0908	0.0493	1.813	0.0222	0.0115		100g	CRM	

Main Base | Cast Iron | Low Alloy | Chips

	C	Cr	Cu	Mn	N	Ni	P	S	Si	Ti	Others/Set Only	Size	Type	Alloy
%	4.003	0.251	0.1276	0.321		0.151	0.202	0.046	2.411	0.0328		100g	CRM	

Main Base | Cast Iron | Others | Chips

	Al	As	C	C(gr)	Co	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%	0.016		3.03					0.017	0.151			0.483	0.0021	0.0086	2.41				100g	CRM	

Main Base | Cast Iron | Low Alloy | Chips

	C	Cr	Cu	Mn	N	Ni	P	S	Si	Ti	Others/Set Only	Size	Type	Alloy
%	3.308	0.0845	0.0303	0.19	0.0058	0.0742	0.61	0.165	0.508			100g	RM	

Main Base | Cast Iron | Others | Chips

	Al	As	C	C(gr)	Co	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%			3.1											0.12					100g	RM	
%			4.51											0.0287					150g	CRM	
%			2.91						0.75				0.053	0.126	1.98				150g	RM	Chips

Main Base | Cast Iron | Pure | Chips

C&S Only	C	S	Others/Set Only	Size	Type	Alloy
%	1.01	0.015		150g	RM	Chips
%	3.35	0.015		150g	RM	

Main Base | Cast Iron | Others | Chips

	Al	As	C	C(gr)	Co	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%			2.02											0.012					150g	RM	
%			3.35											0.035					150g	RM	Nodular
%			3.9											0.01					150g	RM	Ductile
%			4.32											0.014					150g	RM	
%			2.75											0.15					150g	RM	Nodular
%			3.47											0.015					150g	RM	Chips

Main Base | Cast Iron | Pure | Chips

C&S Only	C	S	Others/Set Only	Size	Type	Alloy
%	3.64	0.014		150g	RM	Chips
%	3.44	0.103		150g	RM	Chips
%	3.37	0.08		150g	RM	Chips
%	3.08	0.03		38x38x23mm	CRM Chill Cast	

Main Base | Cast Iron | Low Alloy | Blocks

	Al	As	B	Bi	C	Ce	Co	Cr	Cu	Fe	La	Mg	Mn	Mo	N	Nb	Nd	Ni	P	Pb	S	Sb	Se	Si	Sn	Ti	V	W	Zn	Zr	Others/Set Only	Size	Type	Alloy
%	0.003	0.002		0.0005	1.84	0.0005	0.004	0.683	0.011	(93.2)	0.0005	0.0005	0.06	0.61	0.0053	0.003		0.021	0.007	0.001	0.123	0.139		3.15	(0.003)	0.001	0.08	0.001	0.0005	0.0005		38x38x23mm	CRM Chill Cast	
%	0.042	0.009	0.005	0.02	2.06		0.004	0.031	0.04	(92.5)	0.0005	0.0005	0.189	1.21	0.0092	0.009		0.022	0.044	0.027	0.028	0.005		2.81	0.01	0.28	0.46	0.011				38x38x23mm	CRM Chill Cast	
%	0.013	0.087	0.009		2.32	0.0005	0.026	0.398	0.187		-93 0.0005	0.0005	0.422	0.262	0.0037	0.019		0.085	0.173	(0.055)	0.082	0.086	(0.055)	2.39	0.114	0.023	0.154	0.029	0.018	0.0005		38x38x23mm	CRM Chill Cast	
%	0.019	0.04	0.093	0.0005	2.57	0.018	0.049	0.36	0.308	(92.9)	0.009	0.025	0.68	0.056	0.0078	0.006	0.003	0.336	0.022	0.002	0.011	0.004		2.06	0.179	0.019	0.002	0.052	0.026	0.025		38x38x23mm	CRM Chill Cast	
%	0.038	0.006	0.003	0.009	2.5		0.038	0.197	0.081	(92.5)		0.003	1.38	0.115		0.029		0.194	0.42	0.02	0.035	0.052		1.59	0.076	0.11	0.055	0.02		0.004		38x38x23mm	CRM Chill Cast	
%	0.101	0.003	0.0005		2.73	0.007	0.012	1.16	1.39	(92.9)	0.003	0.016	0.354	0.009			0.003	0.065	0.66	(0.002)	0.02	0.004		0.78	0.002	0.014	0.013			0.0005		38x38x23mm	CRM Chill Cast	
%	0.043	0.01	0.0005	0.007	3.09	0.053	0.095	0.041	0.822	(92.8)	0.019	0.056	1.05	0.023		0.052	0.013	0.437	0.098	(0.002)	0.0034	0.005		1.2	0.038	0.067	0.013		0.012	0.009		38x38x23mm	CRM Chill Cast	
%	0.026	0.018	0.039	0.002	3.34	0.03	0.014	0.022	0.124	(92.9)	0.009	0.037	0.265	0.001		0.005	0.006	0.68	0.05	0.013	0.0033	0.017		1.82	0.017	0.163	0.142	0.001	0.009	0.013		38x38x23mm	CRM Chill Cast	
%	0.105	0.017	0.016	0.006	4.06	0.021	0.013	0.102	0.474	(92.9)	0.006	0.04	0.121	0.013	0.0043	0.013	0.016	1.16	0.26	0.013	0.0078	0.005		0.47	0.007	0.046	0.019		0.006	0.048		39x39x25mm	CRM Chill Cast	

Main Base | Cast Iron | High Alloy | Blocks

Ductile	C	Ce	Co	Cr	Cu	Mg	Mn	Mo	Nb	Ni	P	S	Si	Others/Set Only	Size	Type	Alloy
%	1.12		0.085	0.61	0.22		0.32	0.005		17.7	0.014	0.024	0.55		39x39x25mm	CRM Chill Cast	
%	2.25	0.017	0.09	1.07	0.38	0.022	1.97	0.12	0.1		1907 0.015	0.015	1.14		39x39x25mm	CRM Chill Cast	
%	2.4		0.105	1.66	0.13	0.125		0.005			22 0.026	0.008	2.06		39x39x25mm	CRM Chill Cast	
%	2.45	0.018	0.105	2.95	0.29	0.038	0.74	0.01		23.6	0.059	0.008	2.28		39x39x25mm	CRM Chill Cast	
%	2.78	0.039	0.06	0.24	0.11	0.058	4.5	0.41	0.26	14.3	0.043	0.018	2.6		39x39x20mm	SUS Chill Cast	

Main Base | Setting Up Samples (SUS) | Blocks

	Al	As	B	Bi	C	Co	Cr	Cu	Mg	Mn	Mo	Ni	P	Pb	S	Sb	Se	Si	Sn	Te	Ti	V	W	Zn	Zr	Others/Set Only	Size	Type	Alloy
%	0.03				2.8	0.05	0.1	0.3		1.3	0.2	0.2	0.15		0.18	0.1		1.6	0.04	0.02	0.05	0.05			0.01		39x39x20mm	SUS Chill Cast	
%	0.025	0.03	0.008	0.01	3.41	0.012	0.69	0.49		1.16	1.15	0.57	0.42	0.011	0.099	0.022	0.014	2.18	0.052	0.017	0.052	0.21	0.002	0.016			38x38x20mm	CRM Chill Cast	

Main Base | Cast Iron | Low Alloy | Blocks

	Al	As	B	Bi	C	Ce	Co	Cr	Cu	Fe	La	Mg	Mn	Mo	N	Nb	Nd	Ni	P	Pb	S	Sb	Se	Si	Sn	Ti	V	W	Zn	Zr	Others/Set Only	Size	Type	Alloy
%					2.92			0.18	0.19				0.22	0.51				0.62	0.46		0.031			2.4								38x38x20mm	CRM Chill Cast	
%	0.026				2.76		0.029	1.23	0.56			0.003	0.44	0.21				2.77	0.09		0.16			2.68	(0.37)	0.061	0.067					38x38x20mm	CRM Chill Cast	
%	0.003				3.96		0.009	0.65	0.089			0.002	1.87	0.088				0.13	0.12		0.023	(0.07)		1.74	(0.11)	0.12	0.15					30x30x13mm	CRM Chill Cast	
%					2.59				0.11				0.12						0.159		0.035			3.21								30x30x13mm	CRM Chill Cast	
%					3.12				0.65				0.84						0.082		0.042			1.78								30x30x13mm	CRM Chill Cast	
%					3.28				0.04				1.06						(0.21)		0.065			1.71								30x30x13mm	CRM Chill Cast	
%					1.94				(0.03)				0.68						(0.21)		0.01			2.32								30x30x13mm	CRM Chill Cast	

High P	C	Cr	Mn	P	S	Si	Others/Set Only	Size	Type	Alloy
%	3.34		0.59	0.059	0.18	1.84		30x30x13mm	CRM Chill Cast	
%	3.32		0.61	0.135	0.17	1.86		30x30x13mm	CRM Chill Cast	
%	3.31		0.61	0.22	0.2	1.72		30x30x13mm	CRM Chill Cast	
%	3.3		0.69	0.31	0.074	1.87		30x30x13mm	CRM Chill Cast	
%	3.97		0.62	0.5	0.061	1.63		30x30x13mm	CRM Chill Cast	
%	3.2		0.73	0.7	0.019	1.87		30x30x13mm	CRM Chill Cast	
%	3.16		0.81	1.41	0.016	1.9		30x30x13mm	CRM Chill Cast	

	Al	As	B	Bi	C	Ce	Co	Cr	Cu	Fe	La	Mg	Mn	Mo	N	Nb	Nd	Ni	P	Pb	S	Sb	Se	Si	Sn	Ti	V	W	Zn	Zr	Others/Set Only	Size	Type	Alloy
%					2.77			2.9	0.095				0.74	0.13				2.48	0.023		0.009			1.71	(0.16)							30x30x13mm	CRM Chill Cast	
%					3.15			2.36	0.2				0.8	0.45				2.08	0.025		0.009			1.78	(0.14)							30x30x13mm	CRM Chill Cast	
%					3.17			1.76	0.43				0.78	0.92				1.63	0.025		0.009			1.8	(0.1)							30x30x13mm	CRM Chill Cast	
%					3.15			1.22	0.64				0.8	1.38				1.08	0.024		0.009			1.78	(0.14)							30x30x13mm	CRM Chill Cast	
%					3.32			0.12	1.02				0.75	2.15				0.22	0.028		0.01			1.84	(0.07)							34x34x25mm	CRM Chill Cast	

High Mn	C	Cr	Cu	Mn	Ni	P	S	Si	Others/Set Only	Size	Type	Alloy
%	3.52	0.018	0.11	1.39	0.008	0.083	0.057	0.45		34x34x25mm	CRM Chill Cast	
%	3.85	0.013	0.13		4 0.005	0.087	0.02	0.48		34x34x25mm	CRM Chill Cast	
%	3.63	0.015	0.12	2.8	0.006	0.085	0.03	0.45		150g	CRM	

Main Base | Cast Iron | Others | Chips

	Al	As	C	C(gr)	Co	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Ti	V	Others/Set Only	Size	Type	Alloy
%			2.62	1.96		0.151	5.52			1 0.008		0.047	0.086	0.065	2.13	0.024	0.012		150g	CRM	
%			2.83											0.043					Ø31x19mm	CRM Chill Cast	

Main Base | Cast Iron | Low Alloy | Chips

	Al	As	B	Bi	C	Ca	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	N	Nb	Ni	P	Pb	S	Sb	Si	Sn	Te	Ti	V	W	Zr	Others/Set Only	Size	Type	Alloy
%	(0.04)		(0.02)		2.92			0.058	0.63	0.46			0.187	0.48			0.62	0.215		0.191		0.271			0.012	0.112				Ø31x19mm	CRM Chill Cast	

Main Base | Cast Iron | High Alloy | Slug

Various	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	V	Others/Set Only	Size	Type	Alloy
%	2.67	2.78	0.26	1.14	0.32	4.34	0.028	0.032	1.34	0.031		Ø40x15mm	RM Chill Cast	

Main Base | Cast Iron | Low Alloy | Slug

High P	C	Mn	P	S	Si	Others/Set Only	Size	Type	Alloy
%	2.9	0.4	0.9	0.01	3.2		Ø40x15mm	RM Chill Cast	
%	3.3	0.9	1.7	0.05	2.4		Ø40x15mm	RM Chill Cast	
%	3.4	1.3	2.3	0.1	1.4		Ø40x15mm	RM Chill Cast	
%	3.7	0.7		2 0.2	0.9		60x35x18mm	SUS Chill Cast	

Main Base | Setting Up Samples (SUS) | Blocks

	Al	As	B	Bi	C	Co	Cr	Cu	Mg	Mn	Mo	Ni	P	Pb	S	Sb	Se	Si	Sn	Te	Ti	V	W	Zn	Zr	Others/Set Only	Size	Type	Alloy
%	0.02					3	0.5	0.5		0.4	0.3	0.2	0.05		0.06			2.7	0.05		(<0.01)	0.04					60x35x18mm	SUS Chill Cast	
%	(<0.01)				3.6		0.05	0.2		0.7	0.1	0.5	0.2		0.13			1.8	0.1		0.05	0.55					60x35x18mm	SUS Chill Cast	

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