

# METRIC MINIATURE BALL BEARINGS



Material: Inner Ring, Outer Rings and Balls - SAE52100 Chrome Steel

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Seals: NBR Rubber / Shields: SAE52100 Chrome Steel

Part Number	Bore (mm)	Outer (mm)	Width (mm)	Load Rating (N)		Limiting Speed (rpm)		Weight (kg)
				dynamic	static	grease	oil	
681X-ZZ	1.5	4	2	112	33	100000	120000	0.001
691X-ZZ	1.5	5	2.6	169	50	85000	100000	0.001
682	2	5	1.5	169	50	85000	100000	0.001
MR52	2	5	2	169	50	85000	100000	0.001
682-ZZ	2	5	2.3	169	50	85000	100000	0.001
MR52-ZZ	2	5	2.5	169	50	85000	100000	0.001
692	2	6	2.3	330	99	75000	90000	0.001
MR62	2	6	2.5	330	99	75000	90000	0.001
MR62-ZZ	2	6	2.5	330	99	75000	90000	0.001
692-ZZ	2	6	3	330	99	75000	90000	0.001
602-ZZ	2	7	3.5	386	129	60000	71000	0.001
682X	2.5	6	1.8	209	74	71000	80000	0.001
682X-ZZ	2.5	6	2.6	209	74	71000	80000	0.001
692X-ZZ	2.5	7	3.5	386	129	63000	75000	0.001
MR63	3	6	2	209	74	71000	80000	0.001
MR63-ZZ	3	6	2.5	209	74	71000	80000	0.001

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				dynamic	static	grease	oil	
683	3	7	2	311	112	63000	75000	0.001
683-2RS	3	7	3	311	112	63000	75000	0.001
683-ZZ	3	7	3	311	112	63000	75000	0.001
MR83	3	8	2.5	395	141	60000	67000	0.001
693	3	8	3	558	180	60000	67000	0.001
MR83-2RS	3	8	3	395	141	60000	67000	0.001
MR83-ZZ	3	8	3	395	141	60000	67000	0.001
693-2RS	3	8	4	558	180	60000	67000	0.001
693-ZZ	3	8	4	558	180	60000	67000	0.001
603	3	9	3	571	189	56000	67000	0.002
MR93-ZZ	3	9	4	571	189	56000	67000	0.002
603-ZZ	3	9	5	571	189	56000	67000	0.002
603-2RS	3	9	5	571	189	56000	67000	0.002
623	3	10	4	631	219	50000	60000	0.002
623-ZZ	3	10	4	631	219	50000	60000	0.002
623-2RS	3	10	4	631	219	50000	60000	0.002

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				dynamic	static	grease	oil	
633-2RS	3	13	5	1301	488	40000	48000	0.004
633-ZZ	3	13	5	1301	488	40000	48000	0.004
MR93X-ZZ	3.5	9	4	571	189	56000	67000	0.003
MR74	4	7	2	255	108	60000	67000	0.001
MR74-ZZ	4	7	2.5	255	108	60000	67000	0.001
MR84	4	8	2	395	141	56000	67000	0.001
MR84W3	4	8	3	395	141	56000	67000	0.002
MR84-ZZ	4	8	3	395	141	56000	67000	0.002
MR84-2RS	4	8	3	395	141	56000	67000	0.002
684	4	9	2.5	641	227	53000	63000	0.002
684-ZZ-W3.5	4	9	3.5	641	227	53000	63000	0.002
684-ZZ	4	9	4	641	227	53000	63000	0.002
684-2RS	4	9	4	641	227	53000	63000	0.002
MR104	4	10	3	711	272	48000	56000	0.002
MR104-2RS	4	10	4	498	190	48000	56000	0.002
MR104-ZZ	4	10	4	711	272	48000	56000	0.002

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				dynamic	static	grease	oil	
694	4	11	4	957	350	48000	56000	0.002
694-ZZ	4	11	4	957	350	48000	56000	0.002
694-2RS	4	11	4	957	350	48000	56000	0.002
604	4	12	4	957	350	48000	56000	0.003
604-ZZ	4	12	4	957	350	48000	56000	0.003
604-2RS	4	12	4	957	350	48000	56000	0.003
624	4	13	5	1301	488	40000	48000	0.004
624-ZZ	4	13	5	1301	488	40000	48000	0.004
624-2RS	4	13	5	1301	488	40000	48000	0.004
634	4	16	5	1340	523	36000	43000	0.006
634-ZZ	4	16	5	1340	523	36000	43000	0.006
634-2RS	4	16	5	1340	523	36000	43000	0.006
MR85	5	8	2	218	90	53000	63000	0.001
MR85-2RS	5	8	2.5	218	90	53000	63000	0.001
MR85-ZZ	5	8	2.5	218	90	53000	63000	0.001
MR95	5	9	2.5	431	169	50000	60000	0.001

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				dynamic	static	grease	oil	
MR95-2RS	5	9	3	431	169	50000	60000	0.001
MR95-ZZ	5	9	3	431	169	50000	60000	0.001
MR105	5	10	3	431	169	50000	60000	0.002
MR105-ZZ	5	10	4	431	169	50000	60000	0.002
MR105-2RS	5	10	4	431	169	50000	60000	0.002
MR115-ZZ	5	11	4	716	282	45000	53000	0.001
MR115-2RS	5	11	4	716	282	45000	53000	0.001
685	5	11	3	716	282	45000	53000	0.001
685-ZZ	5	11	5	716	282	45000	53000	0.002
685-2RS	5	11	5	716	282	45000	53000	0.002
695	5	13	4	1077	432	43000	50000	0.003
695-ZZ	5	13	4	1077	432	43000	50000	0.003
695-2RS	5	13	4	1077	432	43000	50000	0.003
695-ZZW5	5	13	5	1077	432	43000	50000	0.003
605	5	14	5	1329	507	40000	50000	0.005
605-ZZ	5	14	5	1329	507	40000	50000	0.005

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				dynamic	static	grease	oil	
605-2RS	5	14	5	1329	507	40000	50000	0.005
625	5	16	5	1729	675	36000	43000	0.006
625-ZZ	5	16	5	1729	675	36000	43000	0.006
625-2RS	5	16	5	1729	675	36000	43000	0.006
635	5	19	6	2336	896	32000	40000	0.008
635-ZZ	5	19	6	2336	896	32000	40000	0.008
635-2RS	5	19	6	2336	896	32000	40000	0.008
MR106	6	10	2.5	496	218	45000	53000	0.001
MR106-ZZ	6	10	3	496	218	45000	53000	0.001
MR106-2RS	6	10	3	496	218	45000	53000	0.001
MR126	6	12	3	716	295	43000	50000	0.002
MR126-ZZ	6	12	4	716	295	43000	50000	0.002
MR126-2RS	6	12	4	716	295	43000	50000	0.002
686	6	13	3.5	1082	442	40000	50000	0.003
686-ZZ	6	13	5	1082	442	40000	50000	0.004
686-2RS	6	13	5	1082	442	40000	50000	0.004

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Part Number	Bore (mm)	Outer (mm)	Width (mm)	Load Rating (N)		Limiting Speed (rpm)		Weight (kg)
				dynamic	static	grease	oil	
696	6	15	5	1340	523	40000	45000	0.004
696-2RS	6	15	5	1340	523	40000	45000	0.004
696-ZZ	6	15	5	1340	523	40000	45000	0.004
696A-ZZ	6	16	5	1340	523	40000	45000	0.007
696A-2RS	6	16	5	1340	523	40000	45000	0.007
606	6	17	6	2263	846	38000	45000	0.007
606-ZZ	6	17	6	2263	846	38000	45000	0.007
606-2RS	6	17	6	2263	846	38000	45000	0.007
626	6	19	6	2336	896	32000	40000	0.008
626-ZZ	6	19	6	2336	896	32000	40000	0.008
626-2RS	6	19	6	2336	896	32000	40000	0.008
636	6	22	7	3333	1423	30000	36000	0.005
636-ZZ	6	22	7	3333	1423	30000	36000	0.005
MR117	7	11	2.5	455	202	43000	50000	0.001
MR117-ZZ	7	11	3	455	202	43000	50000	0.001
MR137	7	13	3	541	276	40000	48000	0.003

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				dynamic	static	grease	oil	
MR137-ZZ	7	13	4	541	276	40000	48000	0.003
687	7	14	3.5	1173	513	40000	50000	0.004
687-ZZ	7	14	5	1173	513	40000	50000	0.004
687-2RS	7	14	5	1173	513	40000	50000	0.004
697	7	17	5	1605	719	36000	43000	0.006
697-ZZ	7	17	5	1605	719	36000	43000	0.006
697-2RS	7	17	5	1605	719	36000	43000	0.006
607	7	19	6	2336	896	36000	43000	0.008
607-ZZ	7	19	6	2336	896	36000	43000	0.008
607-2RS	7	19	6	2336	896	36000	43000	0.008
627	7	22	7	3287	1379	30000	36000	0.014
627-ZZ	7	22	7	3287	1379	30000	36000	0.014
627-2RS	7	22	7	3287	1379	30000	36000	0.014
637-2RS	7	26	9	3333	1423	30000	36000	0.005
637-ZZ	7	26	9	3333	1423	30000	36000	0.005
MR128	8	12	2.5	543	274	40000	48000	0.001



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				dynamic	static	grease	oil	
MR128-ZZ	8	12	3.5	543	274	40000	48000	0.002
MR128-2RS	8	12	3.5	543	274	40000	48000	0.002
MR148	8	14	3.5	817	386	38000	45000	0.003
MR148-ZZ	8	14	4	817	386	38000	45000	0.003
MR148-2RS	8	14	4	817	386	38000	45000	0.003
688	8	16	4	1252	592	36000	43000	0.004
688-2RSW4	8	16	4	1252	592	36000	43000	0.004
688-ZZW4	8	16	4	1252	592	36000	43000	0.004
688-ZZ	8	16	5	1252	592	36000	43000	0.004
688-2RS	8	16	5	1252	592	36000	43000	0.004
688-ZZW6	8	16	6	1252	592	36000	43000	0.005
688-2RSW6	8	16	6	1252	592	36000	43000	0.005
698	8	19	6	2237	917	36000	43000	0.008
698-ZZ	8	19	6	2237	917	36000	43000	0.008
698-2RS	8	19	6	2237	917	36000	43000	0.008
608	8	22	7	3293	1379	34000	40000	0.014

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				dynamic	static	grease	oil	
608-ZZ	8	22	7	3293	1379	34000	40000	0.014
608-2RS	8	22	7	3293	1379	34000	40000	0.014
630/8-2RS	8	22	11	3293	1379	34000	40000	0.019
628	8	24	8	3333	1423	28000	34000	0.018
628-ZZ	8	24	8	3333	1423	28000	34000	0.018
628-2RS	8	24	8	3333	1423	28000	34000	0.018
638	8	28	9	4563	1983	28000	34000	0.031
638-ZZ	8	28	9	4563	1983	28000	34000	0.031
638-2RS	8	28	9	4563	1983	28000	34000	0.031
679-ZZ	9	14	4.5	919	468	36000	42000	0.003
689	9	17	4	1327	668	36000	43000	0.005
689-ZZ	9	17	5	1327	668	36000	43000	0.005
689-2RS	9	17	5	1327	668	36000	43000	0.005
689W6	9	17	6	1327	668	36000	43000	0.005
699	9	20	6	2467	1081	34000	40000	0.008
699-ZZ	9	20	6	2467	1081	34000	40000	0.008

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				dynamic	static	grease	oil	
699-2RS	9	20	6	2467	1081	34000	40000	0.008
609	9	24	7	3356	1444	32000	38000	0.016
609-ZZ	9	24	7	3356	1444	32000	38000	0.016
609-2RS	9	24	7	3356	1444	32000	38000	0.016
629	9	26	8	4575	1983	28000	34000	0.022
629-ZZ	9	26	8	4575	1983	28000	34000	0.022
629-2RS	9	26	8	4575	1983	28000	34000	0.022
639-2RS	9	30	10	4563	1983	28000	34000	0.031
639-ZZ	9	30	10	4563	1983	28000	34000	0.031