

IMPERIAL DIMENSION MINIATURE BALL BEARINGS

Stainless Steel

Material: Inner Ring, Outer Rings and Balls - Stainless AISI420C

Material: Inner Ring, Outer Rings and Balls - Stainless AISI420C

Seals: NBR Rubber / Shields: AISI420



Chrome Steel

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

Material: SAE52100 Chrome Steel

Seals: NBR Rubber / Shields: SAE52100 Chrome Steel

We have a selection of Imperial Dimension Miniature Ball Bearings available in a variety of designs - Open, Shielded, Sealed - Chrome Steel, Stainless steel, Standard or Flanged

Ref	Material	Edge Type	Bore mm	Outer mm	Width mm	Bore Decimal Inches	Outer Decimal Inches	Width Decimal Inches	Bore Fraction Inches	Outer Fraction Inches	Width Fraction Inches	Load Rating		Limiting Speed		Weight kg
												dynamic	static	grease	oil	
FR133	Chrome Steel	Flanged	2.381	4.762	1.588	0.09375	0.1875	0.0625	3/32	1/8	1/16	101	37	80000	95000	0.001
FR133-ZZ	Chrome Steel	Flanged	2.381	4.762	2.381	0.09375	0.1875	0.09375	3/32	1/8	3/32	144	53	80000	95000	0.001
SSFR133-ZZ	Stainless Steel	Flanged	2.381	4.762	2.381	0.09375	0.1875	0.09375	3/32	1/8	3/32	144	53	80000	95000	0.001
SSFR144	Stainless Steel	Flanged	3.175	6.350	2.381	0.1250	0.2500	0.0938	1/8	1/4	3/32	199	67	67000	80000	0.001
FR144-ZZ	Chrome Steel	Flanged	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64	284	96	67000	80000	0.001
SSFR144-ZZ	Stainless Steel	Flanged	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64	199	67	67000	80000	0.001
FR2-5	Chrome Steel	Flanged	3.175	7.938	2.779	0.1250	0.3125	0.1094	1/8	5/16	7/64	558	180	60000	67000	0.001
FR2-5-ZZ	Chrome Steel	Flanged	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64	558	180	60000	67000	0.001
SSFR2-5-ZZ	Stainless Steel	Flanged	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64	391	126	60000	67000	0.001
FR2-6	Chrome Steel	Flanged	3.175	9.525	2.779	0.1250	0.3750	0.1094	1/8	3/8	7/64	640	227	53000	63000	0.002
FR2-6-ZZ	Chrome Steel	Flanged	3.175	9.525	3.571	0.1250	0.3750	0.1406	1/8	3/8	9/64	640	227	53000	63000	0.002
SSFR2-ZZ	Stainless Steel	Flanged	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32	442	153	56000	67000	0.002
FR155-ZZ	Chrome Steel	Flanged	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8	359	150	53000	63000	0.001
SSFR155-ZZ	Stainless Steel	Flanged	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8	251	105	53000	63000	0.001
SSFR156	Stainless Steel	Flanged	4.763	7.938	2.779	0.1875	0.3125	0.1094	3/16	5/16	7/64	359	150	53000	63000	0.001
FR156-ZZ	Chrome Steel	Flanged	4.763	7.938	3.175	0.1875	0.3125	0.1250	3/16	5/16	1/8	359	150	53000	63000	0.001
FR166-ZZ	Chrome Steel	Flanged	4.763	9.525	3.175	0.1875	0.3750	0.1250	3/16	3/8	1/8	709	272	50000	60000	0.001
FR3-ZZ	Chrome Steel	Flanged	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	25/128	1301	488	43000	53000	0.005
FR3-ZZ	Chrome Steel	Flanged	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	25/128	1301	488	43000	53000	0.005
SSFR3-ZZ	Stainless Steel	Flanged	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	25/128	911	342	43000	53000	0.005
FR168-ZZ	Chrome Steel	Flanged	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8	373	172	48000	56000	0.001
SSFR168	Stainless Steel	Flanged	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8	261	120	48000	56000	0.001
SSFR168-ZZ	Stainless Steel	Flanged	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8	261	120	48000	56000	0.001

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Ref	Material	Edge Type	Bore mm	Outer mm	Width mm	Bore Decimal Inches	Outer Decimal Inches	Width Decimal Inches	Bore Fraction Inches	Outer Fraction Inches	Width Fraction Inches	Load Rating		Limiting Speed		Weight kg
												dynamic	static	grease	oil	
FR188	Chrome Steel	Flanged	6.350	12.700	3.175	0.2500	0.5000	0.1250	1/4	1/2	1/8	1082	442	40000	50000	0.003
SSFR188	Stainless Steel	Flanged	6.350	12.700	3.175	0.2500	0.5000	0.1250	1/4	1/2	1/8	1082	442	40000	50000	0.003
FR188-ZZ	Chrome Steel	Flanged	6.350	12.700	4.763	0.2500	0.5000	0.1875	1/4	1/2	3/16	1082	442	40000	50000	0.003
SSFR188-ZZ	Stainless Steel	Flanged	6.350	12.700	4.763	0.2500	0.5000	0.1875	1/4	1/2	3/16	757	309	40000	50000	0.003
FR4-ZZ	Chrome Steel	Flanged	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1480	621	38000	45000	0.005
FR4-2RS	Chrome Steel	Flanged	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1480	621	38000	45000	0.005
SSFR4-ZZ	Stainless Steel	Flanged	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1036	435	38000	45000	0.005
FR1810-ZZ	Chrome Steel	Flanged	7.938	12.700	3.967	0.3125	0.5000	0.1562	5/16	1/2	5/32	542	276	40000	48000	0.002
FR6	Chrome Steel	Flanged	9.525	22.225	5.558	0.3750	0.8750	0.2188	3/8	7/8	7/32	3332	1422	32000	38000	0.010
SSFR6	Stainless Steel	Flanged	9.525	22.225	5.558	0.3750	0.8750	0.2188	3/8	7/8	7/32	2332	995	32000	38000	0.009
FR6-ZZ	Chrome Steel	Flanged	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32	3332	1422	32000	38000	0.012
SSFR6-ZZ	Stainless Steel	Flanged	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32	2332	995	32000	38000	0.012
SSFR6-2RS	Stainless Steel	Flanged	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32	2332	995	32000	38000	0.012
SSR133	Stainless Steel	Standard	2.380	4.763	1.588	0.0937	0.1875	0.0625	3/32	3/16	1/16	101	37	80000	95000	0.001
R133-ZZ	Chrome Steel	Standard	2.380	4.763	2.380	0.0937	0.1875	0.0937	3/32	3/16	3/32	144	53	80000	95000	0.001
SSR133-ZZ	Stainless Steel	Standard	2.380	4.763	2.380	0.0937	0.1875	0.0937	3/32	3/16	3/32	101	37	80000	95000	0.001
R144	Chrome Steel	Standard	3.175	6.350	2.380	0.1250	0.2500	0.0937	1/8	1/4	3/32	284	96	67000	80000	0.001
R144-ZZ	Chrome Steel	Standard	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64	284	96	67000	80000	0.001
SSR144-ZZ	Stainless Steel	Standard	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64	199	67	67000	80000	0.001
R2-5	Chrome Steel	Standard	3.175	7.938	2.779	0.1250	0.3125	0.1094	1/8	5/16	7/64	558	180	60000	67000	0.001
R2-5-ZZ	Chrome Steel	Standard	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64	558	180	60000	67000	0.001
SSR2-5-ZZ	Stainless Steel	Standard	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64	391	126	60000	67000	0.001
R2-6-ZZ	Chrome Steel	Standard	3.175	9.525	3.571	0.1250	0.3750	0.1406	1/8	3/8	9/64	640	227	53000	63000	0.002

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Ref	Material	Edge Type	Bore mm	Outer mm	Width mm	Bore Decimal Inches	Outer Decimal Inches	Width Decimal Inches	Bore Fraction Inches	Outer Fraction Inches	Width Fraction Inches	Load Rating		Limiting Speed		Weight kg
												dynamic	static	grease	oil	
SSR2-6-ZZ	Stainless Steel	Standard	3.175	9.525	3.571	0.1250	0.3750	0.1406	1/8	3/8	9/64	448	159	53000	63000	0.002
R2-2RS	Chrome Steel	Standard	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32	631	219	56000	67000	0.002
R2	Chrome Steel	Standard	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32	631	219	56000	67000	0.002
R2-ZZ	Chrome Steel	Standard	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32	631	219	56000	67000	0.002
SSR2-ZZ	Stainless Steel	Standard	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32	442	153	56000	67000	0.002
SSR184-ZZ	Stainless Steel	Standard	3.175	12.700	2.778	0.1250	0.5000	0.109	1/8	1/2	7/64	448	159	53000	63000	0.002
R2A-ZZ	Chrome Steel	Standard	3.175	12.700	4.366	0.1250	0.5000	0.1719	1/8	1/2	11/64	640	227	53000	63000	0.003
R155-ZZ	Chrome Steel	Standard	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8	359	150	53000	63000	0.001
SSR155-ZZ	Stainless Steel	Standard	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8	251	105	53000	63000	0.001
R156-ZZ	Chrome Steel	Standard	4.763	7.938	3.175	0.1875	0.3125	0.1250	3/16	5/16	1/8	359	150	53000	63000	0.001
SSR156-ZZ	Stainless Steel	Standard	4.763	7.938	3.175	0.1875	0.3125	0.1250	3/16	5/16	1/8	251	105	53000	63000	0.001
R166-ZZ	Chrome Steel	Standard	4.763	9.525	3.175	0.1875	0.3750	0.1250	3/16	3/8	1/8	709	272	50000	60000	0.001
SSR166-ZZ	Stainless Steel	Standard	4.763	9.525	3.175	0.1875	0.3750	0.1250	3/16	3/8	1/8	496	190	50000	60000	0.001
R3	Chrome Steel	Standard	4.763	12.700	3.967	0.1875	0.5000	0.1562	3/16	1/2	5/32	1301	488	43000	53000	0.003
SSR3	Stainless Steel	Standard	4.763	12.700	3.967	0.1875	0.5000	0.1562	3/16	1/2	5/32	911	342	43000	53000	0.003
R3-ZZ	Chrome Steel	Standard	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	25/128	1301	488	43000	53000	0.003
R3-2RS	Chrome Steel	Standard	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	25/128	1301	488	43000	53000	0.003
SSR3-ZZ	Stainless Steel	Standard	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	25/128	911	342	43000	53000	0.003
SSR3-2RS	Stainless Steel	Standard	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	25/128	911	342	43000	53000	0.003
R3A-2RS	Chrome Steel	Standard	4.763	15.875	4.978	0.1875	0.6250	0.1960	3/16	5/8	25/128	1480	621	38000	45000	0.005
R3A-ZZ	Chrome Steel	Standard	4.763	15.875	4.978	0.1875	0.6250	0.1960	3/16	5/8	25/128	1480	621	38000	45000	0.005
R168-ZZ	Chrome Steel	Standard	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8	373	172	48000	56000	0.001
R168-2RS	Chrome Steel	Standard	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8	373	172	48000	56000	0.001

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Ref	Material	Edge Type	Bore mm	Outer mm	Width mm	Bore Decimal Inches	Outer Decimal Inches	Width Decimal Inches	Bore Fraction Inches	Outer Fraction Inches	Width Fraction Inches	Load Rating		Limiting Speed		Weight kg
												dynamic	static	grease	oil	
SSR168-ZZ	Stainless Steel	Standard	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8	261	120	48000	56000	0.001
R188-ZZ	Chrome Steel	Standard	6.350	12.700	4.763	0.2500	0.5000	0.1875	1/4	1/2	3/16	1082	442	40000	50000	0.003
SSR188-ZZ	Stainless Steel	Standard	6.350	12.700	4.763	0.2500	0.5000	0.1875	1/4	1/2	3/16	757	309	40000	50000	0.003
R4	Chrome Steel	Standard	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1480	621	38000	45000	0.005
R4-ZZ	Chrome Steel	Standard	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1480	621	38000	45000	0.005
R4-2RS	Chrome Steel	Standard	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1480	621	38000	45000	0.005
SSR4-ZZ	Stainless Steel	Standard	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1036	435	38000	45000	0.005
SSR4-2RS	Stainless Steel	Standard	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	25/128	1036	435	38000	45000	0.005
R4A	Chrome Steel	Standard	6.350	19.050	5.558	0.2500	0.7500	0.2188	1/4	3/4	7/32	2336	896	36000	43000	0.010
R4A-ZZ	Chrome Steel	Standard	6.350	19.050	7.142	0.2500	0.7500	0.2812	1/4	3/4	9/32	2336	896	36000	43000	0.010
R4A-2RS	Chrome Steel	Standard	6.350	19.050	7.142	0.2500	0.7500	0.2812	1/4	3/4	9/32	2336	896	36000	43000	0.010
SSR4A-ZZ	Stainless Steel	Standard	6.350	19.050	7.142	0.2500	0.7500	0.2812	1/4	3/4	9/32	1635	627	36000	43000	0.010
R1810-ZZ	Chrome Steel	Standard	7.938	12.700	3.967	0.3125	0.5000	0.1562	5/16	1/2	5/32	542	276	40000	48000	0.002
SSR1810-ZZ	Stainless Steel	Standard	7.938	12.700	3.967	0.3125	0.5000	0.1562	5/16	1/2	5/32	379	193	40000	48000	0.002
R6	Chrome Steel	Standard	9.525	22.225	5.558	0.3750	0.8750	0.2188	3/8	7/8	7/32	3332	1422	32000	38000	0.012
SSR6	Stainless Steel	Standard	9.525	22.225	5.558	0.3750	0.8750	0.2188	3/8	7/8	7/32	2332	995	32000	38000	0.012
R6-ZZ	Chrome Steel	Standard	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32	3332	1422	32000	38000	0.012
R6-2RS	Chrome Steel	Standard	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32	3332	1422	32000	38000	0.012
SSR6-ZZ	Stainless Steel	Standard	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32	2332	995	32000	38000	0.012
SSR6-2RS	Stainless Steel	Standard	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32	2332	995	32000	38000	0.012