



BLS ZZ -70°

## Ball Bearings for Low Temperature

The BLS ZZ -70°C bearings are developed based on the structure of a standard bearing but with appropriate treatments of stabilization, radial clearance, grease and ZZ shields that make them suitable for operation from -70°C to +100°C. Their application range is extremely wide and covers many areas; in particular, the BLS ZZ -70°C allows an exceptional range of safety in all applications where they can also occur temporarily and for reasons not dependent on the will of the design, temperatures particularly low.

### Technical characteristics:

Material steel AISI 52100 (Chrome) stabilized to the application  
Radial Clearance C4  
Lamination Steel type ZZ  
Greasing with grease for temperatures down to -70°C

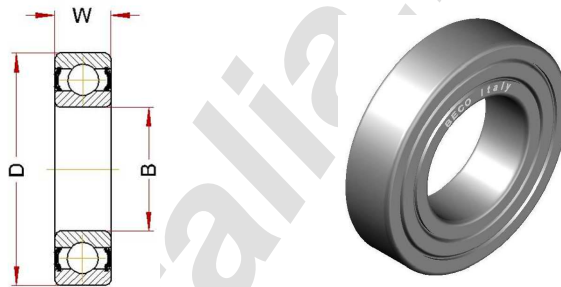
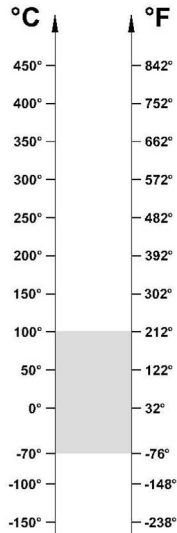
### Fields of application:

Installations for the production of gas  
Equipment for refrigeration rooms  
Facilities for ski resorts  
Special vehicles for arctic use



# BLS ZZ -70° (6000 Serie)

## Ball Bearings for Low Temperature



OPERATING RANGE: -70° / 100°C

ECONOMIC OPERATING RANGE: -70° / 100°C

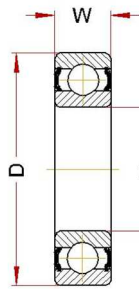
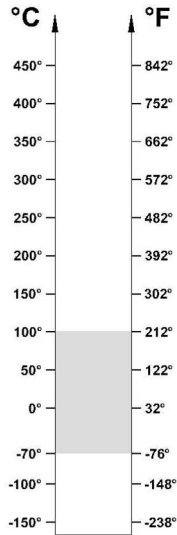
| Designation      | Bore (B) | Diam (D) | Width (W) | Weight g | Limiting Speed RPM/min(*) | Static Load, kN at -70° | Static Load, kN at 20° |
|------------------|----------|----------|-----------|----------|---------------------------|-------------------------|------------------------|
| 6000 BLS ZZ -70° | 10       | 26       | 8         | 20       | 6000                      | 1,57                    | 1,96                   |
| 6001 BLS ZZ -70° | 12       | 28       | 8         | 25       | 5800                      | 1,89                    | 2,36                   |
| 6002 BLS ZZ -70° | 15       | 32       | 9         | 30       | 5600                      | 2,28                    | 2,85                   |
| 6003 BLS ZZ -70° | 17       | 35       | 10        | 40       | 5400                      | 2,6                     | 3,25                   |
| 6004 BLS ZZ -70° | 20       | 42       | 12        | 69       | 5200                      | 4                       | 5                      |
| 6005 BLS ZZ -70° | 25       | 47       | 12        | 80       | 4800                      | 4,68                    | 5,85                   |
| 6006 BLS ZZ -70° | 30       | 55       | 13        | 120      | 4400                      | 6,4                     | 8                      |
| 6007 BLS ZZ -70° | 35       | 62       | 14        | 160      | 4000                      | 8,32                    | 10,4                   |
| 6008 BLS ZZ -70° | 40       | 68       | 15        | 190      | 3600                      | 9,44                    | 11,8                   |
| 6009 BLS ZZ -70° | 45       | 75       | 16        | 250      | 3200                      | 11,44                   | 14,3                   |
| 6010 BLS ZZ -70° | 50       | 80       | 16        | 260      | 2800                      | 12,48                   | 15,6                   |
| 6011 BLS ZZ -70° | 55       | 90       | 18        | 390      | 2400                      | 16,96                   | 21,2                   |
| 6012 BLS ZZ -70° | 60       | 95       | 18        | 420      | 2000                      | 18,56                   | 23,2                   |
| 6013 BLS ZZ -70° | 65       | 100      | 18        | 440      | 1800                      | 20                      | 25                     |
| 6014 BLS ZZ -70° | 70       | 110      | 20        | 600      | 1600                      | 25,2                    | 31,5                   |
| 6015 BLS ZZ -70° | 75       | 115      | 20        | 640      | 1400                      | 27,2                    | 34                     |
| 6016 BLS ZZ -70° | 80       | 125      | 22        | 850      | 1200                      | 32                      | 40                     |
| 6017 BLS ZZ -70° | 85       | 130      | 22        | 890      | 1000                      | 34,32                   | 42,9                   |
| 6018 BLS ZZ -70° | 90       | 140      | 24        | 1150     | 900                       | 39,92                   | 49,9                   |
| 6019 BLS ZZ -70° | 95       | 145      | 24        | 1200     | 800                       | 43,16                   | 53,95                  |
| 6020 BLS ZZ -70° | 100      | 150      | 24        | 1250     | 700                       | 43,16                   | 53,95                  |

**OPERATING RANGE** is the correct technical range in which can be used the bearing with good operating result.

**ECONOMIC OPERATING RANGE** is the range of temperature in which you can find, according to our study experience and know-how, the better relation price - quality life-time.

# BLS ZZ -70° (6200 Serie)

## Ball Bearings for Low Temperature



OPERATING RANGE: -70° / 100°C

ECONOMIC OPERATING RANGE: -70° / 100°C

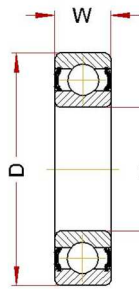
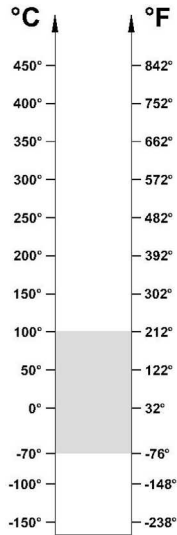
| Designation      | Bore (B) | Diam (D) | Width (W) | Weight g | Limiting Speed RPM/min(*) | Static Load, kN at -70° | Static Load, kN at 20° |
|------------------|----------|----------|-----------|----------|---------------------------|-------------------------|------------------------|
| 6200 BLS ZZ -70° | 10       | 30       | 9         | 30       | 5800                      | 2,08                    | 2,6                    |
| 6201 BLS ZZ -70° | 12       | 32       | 10        | 37       | 5600                      | 2,48                    | 3,1                    |
| 6202 BLS ZZ -70° | 15       | 35       | 11        | 45       | 5400                      | 3                       | 3,75                   |
| 6203 BLS ZZ -70° | 17       | 40       | 12        | 65       | 5200                      | 3,8                     | 4,75                   |
| 6204 BLS ZZ -70° | 20       | 47       | 14        | 110      | 4800                      | 5,24                    | 6,55                   |
| 6205 BLS ZZ -70° | 25       | 52       | 15        | 130      | 4400                      | 6,4                     | 8                      |
| 6206 BLS ZZ -70° | 30       | 62       | 16        | 200      | 4000                      | 8,96                    | 11,2                   |
| 6207 BLS ZZ -70° | 35       | 72       | 17        | 290      | 3600                      | 12,24                   | 15,3                   |
| 6208 BLS ZZ -70° | 40       | 80       | 18        | 370      | 3200                      | 14,4                    | 18                     |
| 6209 BLS ZZ -70° | 45       | 85       | 19        | 410      | 2800                      | 16,32                   | 20,4                   |
| 6210 BLS ZZ -70° | 50       | 90       | 20        | 460      | 2400                      | 19,2                    | 24                     |
| 6211 BLS ZZ -70° | 55       | 100      | 21        | 610      | 2000                      | 23,2                    | 29                     |
| 6212 BLS ZZ -70° | 60       | 110      | 22        | 780      | 1800                      | 28,8                    | 36                     |
| 6213 BLS ZZ -70° | 65       | 120      | 23        | 990      | 1600                      | 33,2                    | 41,5                   |
| 6214 BLS ZZ -70° | 70       | 125      | 24        | 1040     | 1400                      | 35,2                    | 44                     |
| 6215 BLS ZZ -70° | 75       | 130      | 25        | 1210     | 1200                      | 39,2                    | 49                     |
| 6216 BLS ZZ -70° | 80       | 140      | 26        | 1400     | 1000                      | 44                      | 55                     |
| 6217 BLS ZZ -70° | 85       | 150      | 28        | 1800     | 900                       | 51,2                    | 64                     |
| 6218 BLS ZZ -70° | 90       | 160      | 30        | 2150     | 800                       | 58,8                    | 73,5                   |
| 6219 BLS ZZ -70° | 95       | 170      | 32        | 2600     | 700                       | 65,2                    | 81,5                   |
| 6220 BLS ZZ -70° | 100      | 180      | 34        | 3150     | 600                       | 74,4                    | 93                     |

**OPERATING RANGE** is the correct technical range in which can be used the bearing with good operating result.

**ECONOMIC OPERATING RANGE** is the range of temperature in which you can find, according to our study experience and know-how, the better relation price - quality life-time.

# BLS ZZ -70° (6300 Serie)

## Ball Bearings for Low Temperature



OPERATING RANGE: -70° / 100°C

ECONOMIC OPERATING RANGE: -70° / 100°C

| Designation      | Bore (B) | Diam (D) | Width (W) | Weight g | Limiting Speed RPM/min(*) | Static Load, kN at -70° | Static Load, kN at 20° |
|------------------|----------|----------|-----------|----------|---------------------------|-------------------------|------------------------|
| 6300 BLS ZZ -70° | 10       | 35       | 11        | 52       | 5600                      | 2,48                    | 3,1                    |
| 6301 BLS ZZ -70° | 12       | 37       | 12        | 60       | 5400                      | 2,96                    | 3,7                    |
| 6302 BLS ZZ -70° | 15       | 42       | 13        | 80       | 5200                      | 3,84                    | 4,8                    |
| 6303 BLS ZZ -70° | 17       | 47       | 14        | 120      | 4800                      | 4,64                    | 5,8                    |
| 6304 BLS ZZ -70° | 20       | 52       | 15        | 140      | 4400                      | 6,08                    | 7,6                    |
| 6305 BLS ZZ -70° | 25       | 62       | 17        | 225      | 4000                      | 8,16                    | 10,2                   |
| 6306 BLS ZZ -70° | 30       | 72       | 19        | 350      | 3600                      | 11,68                   | 14,6                   |
| 6307 BLS ZZ -70° | 35       | 80       | 21        | 450      | 3200                      | 13,68                   | 17,1                   |
| 6308 BLS ZZ -70° | 40       | 90       | 23        | 620      | 2800                      | 18                      | 22,5                   |
| 6309 BLS ZZ -70° | 45       | 100      | 25        | 830      | 2400                      | 23,04                   | 28,8                   |
| 6310 BLS ZZ -70° | 50       | 110      | 27        | 1050     | 2000                      | 27,36                   | 34,2                   |
| 6311 BLS ZZ -70° | 55       | 120      | 29        | 1350     | 1800                      | 34,16                   | 42,7                   |
| 6312 BLS ZZ -70° | 60       | 130      | 31        | 1700     | 1600                      | 37,44                   | 46,8                   |
| 6313 BLS ZZ -70° | 65       | 140      | 33        | 2100     | 1400                      | 43,2                    | 54                     |
| 6314 BLS ZZ -70° | 70       | 150      | 35        | 2500     | 1200                      | 48,96                   | 61,2                   |
| 6315 BLS ZZ -70° | 75       | 160      | 37        | 3000     | 1000                      | 55,04                   | 68,8                   |
| 6316 BLS ZZ -70° | 80       | 170      | 39        | 3600     | 900                       | 62,24                   | 77,8                   |
| 6317 BLS ZZ -70° | 85       | 180      | 41        | 4250     | 800                       | 69,44                   | 86,8                   |
| 6318 BLS ZZ -70° | 90       | 190      | 43        | 4900     | 700                       | 77,76                   | 97,2                   |
| 6319 BLS ZZ -70° | 95       | 200      | 45        | 5650     | 600                       | 84,96                   | 106,2                  |
| 6320 BLS ZZ -70° | 100      | 215      | 47        | 7000     | 500                       | 100,8                   | 126                    |

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