



Heavy Duty Bearings in **TOUGHMET** Spinodal Bronze



THE BIGGEST ADVANCE IN PLAIN BEARINGS IN MORE THAN 70 YEARS

Bowman International Ltd, of the UK, have developed the new BowMet® range of rolled bearings manufactured in the material ToughMet® from Materion, which has outstanding bearing properties.

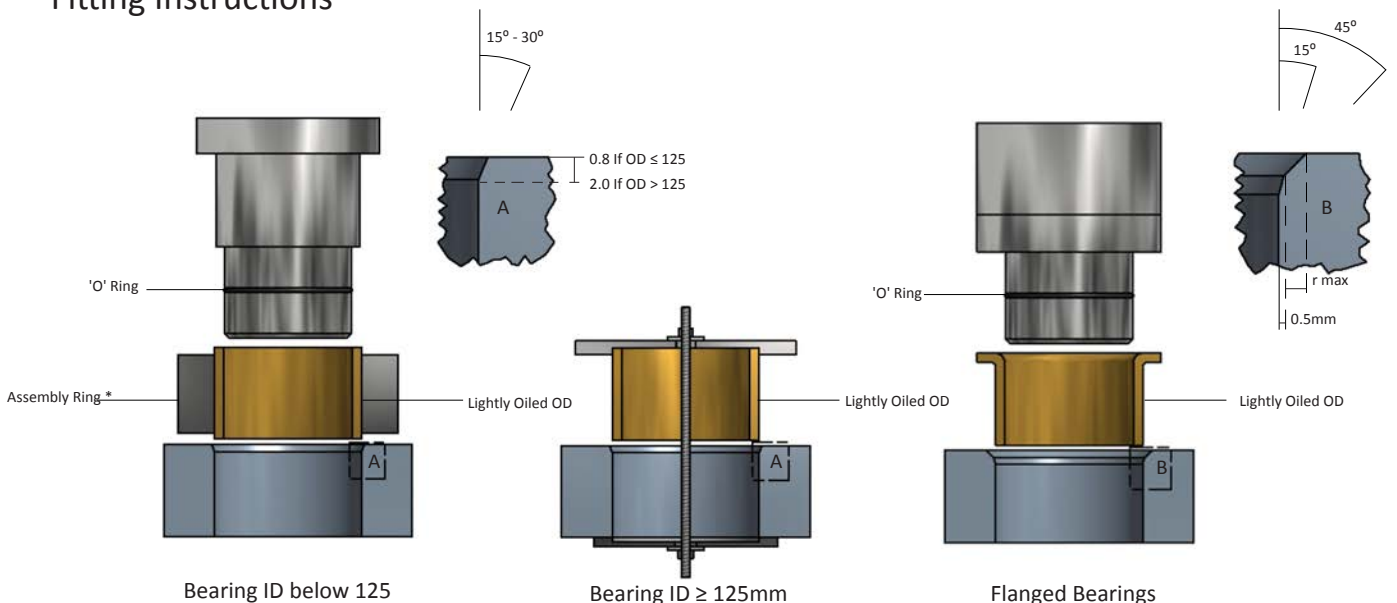
The new range of bearings offers higher load capacity than any other proprietary plain bearing and its heat, speed and corrosion capabilities combine to offer greatly increased life in many applications. Savings in warranty claims, down time, product reliability and maintenance have resulted, and been documented, across a wide range of industries. From heavy duty plant to racing engines, from marine to aircraft applications, benefits are available across a broad range of industries.

The Bowman method of producing bearings using a rolling process gives virtually no wastage and is far more cost effective than machined alternatives using ToughMet®. There is no minimum quantity. Low tooling costs mean that one offs to high volume are economical.

- Direct replacement for existing bushes
- High Load Capacity
- High PV value
- Extended life
- Corrosion resistant
- Suits harsh environments
- Runs in water incl. seawater
- Cost effective
- Low cost specials
- Metric and imperial
- Pockets, holes and lubrication grooves available



Fitting Instructions



*Assembly ring only required for bearing with OD > 55mm

Technical Data

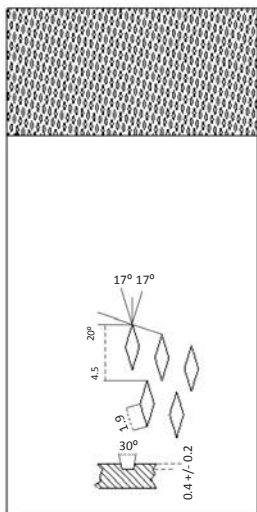
Description	Metric Bearing Data	Imperial Bearing Data
Material	ToughMet® Spinodal Bronze Composition - Cu 77% Ni 15% Sn 8%	
Static load	820 N/mm ²	120.000 Lbs/inch ²
Dynamic load	340 N/mm ²	50.000 Lbs/inch ²
Max sliding speed	3 m/s dry 10 m/s oiled	10 ft/s dry 33ft/s oiled
Operating temp	-250 °C to +300 °C	-450 °F to +570 °F
Thermal Conductivity	38 W/mk	22 BTU/hr.ft. °F
Coefficient of friction	0.25 dry 0.04 oiled	0.25 dry 0.04 oiled
Ultimate Tensile Strength	860 MPa	125 Ksi
Yeild Strength	725MPa	110 Ksi
Elongation	10%	10%
Elastic Modulus	144 GPa	21 x 10 ⁶ psi
Poisson's Ratio	0.3	0.3
Coefficient of Thermal Expansion	16.4 x 10 ⁻⁶ /°C	9.1 x 10 ⁻⁶ /°F
Recommended shaft finish	Ra ≤ 0.4µm (N5)	16 µinch
Recommended shaft hardness	HRC60	HRC60
PV value	9.6 MPa x m/s	275,000 Psi x ft/min
Hardness	HRC30 min	HRC30 min

Corrosion resistance (NACE level V included)

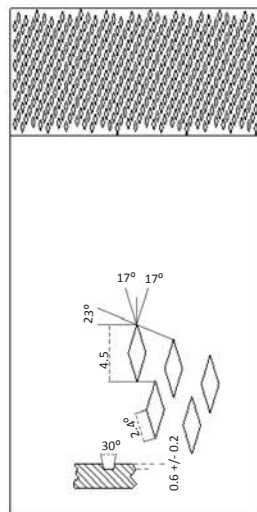
ToughMet® resists saltwater corrosion, hydrogen embrittlement, and chloride stress-corrosion cracking better than most copper-based alloys. In Sulphide environments like sour gas wells, ToughMet® resists stress-corrosion cracking very well, and has an extremely low corrosion rate compared to other copper-based alloys. In some sulphide environments, the corrosion rate is similar to stainless steels and nickel alloys.

Galvanically, ToughMet® is similar to other copper-nickel alloys and is lead free.

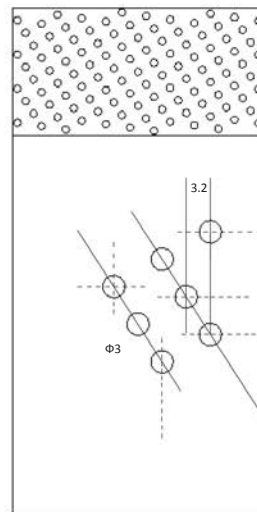
Optional Lubrication Indentations/Holes Design



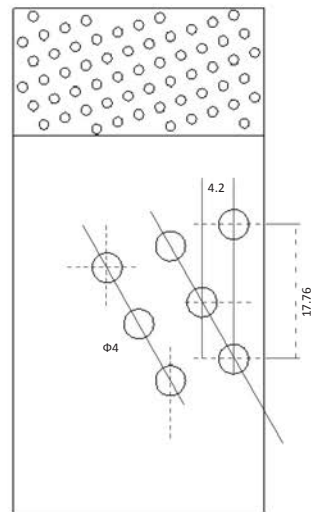
Diamond Indentations
Inside Diameter <math>< \Phi 22</math>



Diamond Indentations
Inside Diameter $\geq \Phi 22$



Sphercial Holes
Inside Diameter $\leq \Phi 25$



Spherical Holes
Inside Diameter $> \Phi 25$

ToughMet® is a registered trademark of Materion Corp. Bowmet® is a registered trademark of Bowman International Ltd.

Metric Plain Heavy Duty Bearings
 in **TOUGHMET** Spinodal Bronze


ID	ID When in Housing +/- H9	Shaft Diameter +/- f8	OD	Housing Diameter +/- H7	Standard Lengths																
					ID < 80 : Length +/- 0.25					ID ≥ 80 : Length +/- 0.50											
					5	10	15	20	25	30	40	50	60	70	80						
5	+0.030 -0.000	-0.010 -0.028	7	+0.015 -0.000	BMP 050705	BMP 050710															
6			BMP 060805		BMP 060810																
7	+0.036 -0.000	-0.013 -0.035	9		BMP 070905	BMP 070910															
8			BMP 081005		BMP 081010																
10	+0.043 -0.000	-0.016 -0.043	12	+0.018 -0.000		BMP 101210	BMP 101215	BMP 101220													
12					BMP 121410	BMP 121415	BMP 121420														
14					BMP 141610	BMP 141615	BMP 141620	BMP 141625													
15					BMP 151710	BMP 151715	BMP 151720	BMP 151725													
16					BMP 161810	BMP 161815	BMP 161820	BMP 161825													
18					BMP 182010	BMP 182015	BMP 182020	BMP 182025													
20			+0.052 -0.000		-0.020 -0.053	23	+0.021 -0.000		BMP 202310	BMP 202315	BMP 202320	BMP 202325									
22								BMP 222510	BMP 222515	BMP 222520	BMP 222525	BMP 222530									
24				BMP 242715		BMP 242720		BMP 242725	BMP 242730												
25				BMP 252815		BMP 252820		BMP 252825	BMP 252830												
26				BMP 263015		BMP 263020		BMP 263025	BMP 263030												
28				BMP 283215		BMP 283220		BMP 283225	BMP 283230												
30	+0.062 -0.000	-0.025 -0.064	34	+0.025 -0.000		BMP 303415	BMP 303420	BMP 303425	BMP 303430	BMP 303440											
32					BMP 323615	BMP 323620	BMP 323625	BMP 323630	BMP 323640	BMP 323650											
34					BMP 343815	BMP 343820	BMP 343825	BMP 343830	BMP 343840	BMP 343850											
35					BMP 353915	BMP 353920	BMP 353925	BMP 353930	BMP 353940	BMP 353950											
36					BMP 364015	BMP 364020	BMP 364025	BMP 364030	BMP 364040	BMP 364050											
38					BMP 384215	BMP 384220	BMP 384225	BMP 384230	BMP 384240	BMP 384250											
40						BMP 404420	BMP 404425	BMP 404430	BMP 404440	BMP 404450											
45						BMP 455020	BMP 455025	BMP 455030	BMP 455040	BMP 455050											
50	+0.074 -0.000	-0.030 -0.076	55	+0.030 -0.000		BMP 505520	BMP 505525	BMP 505530	BMP 505540	BMP 505550	BMP 505560										
55					BMP 556020	BMP 556025	BMP 556030	BMP 556040	BMP 556050	BMP 556060											
60						BMP 606525	BMP 606530	BMP 606540	BMP 606550	BMP 606560	BMP 606570										
65							BMP 657030	BMP 657040	BMP 657050	BMP 657060	BMP 657070	BMP 657080									
70							BMP 707530	BMP 707540	BMP 707550	BMP 707560	BMP 707570	BMP 707580									
75							BMP 758030	BMP 758040	BMP 758050	BMP 758060	BMP 758070	BMP 758080									
80	+0.035 -0.000		80	+0.035 -0.000		BMP 808530	BMP 808540	BMP 808550	BMP 808560	BMP 808570	BMP 808580										
80						BMP 808540	BMP 808550	BMP 808560	BMP 808570	BMP 808580											

ID	ID When in Housing +/- H9	Shaft Diameter +/- f8	OD	Housing Diameter +/- H7	Standard Lengths							
					ID < 80 : Length +/- 0.25				ID ≥ 80 : Length +/- 0.50			
					30	40	50	60	70	80	90	100
85	+0.087 -0.000	-0.036 -0.090	90	+0.035 -0.000	BMP 859030	BMP 859040	BMP 859050	BMP 859060	BMP 859070	BMP 859080		
90			BMP 909530		BMP 909540	BMP 909550	BMP 909560	BMP 909570	BMP 909580			
95					BMP 9510040	BMP 9510050	BMP 9510060	BMP 9510070	BMP 9510080	BMP 9510090	BMP 95100100	
100						BMP 10010550	BMP 10010560	BMP 10010570	BMP 10010580	BMP 10010590	BMP 100105100	
105						BMP 10511050	BMP 10511560	BMP 10511070	BMP 10511080	BMP 10511590	BMP 105115100	
110						BMP 11011550	BMP 11011560	BMP 11011570	BMP 11011580	BMP 11011590	BMP 110115100	
115						BMP 11512050	BMP 11512060	BMP 11512070	BMP 11512080	BMP 11512090	BMP 115120100	
120							BMP 12012560	BMP 12012570	BMP 12012580	BMP 12012590	BMP 120125100	
125							BMP 12513060	BMP 12513070	BMP 12513080	BMP 12513090	BMP 125130100	
130							BMP 13013560	BMP 13013570	BMP 13013580	BMP 13013590	BMP 130135100	
135							BMP 13514060	BMP 13514070	BMP 13514080	BMP 13514090	BMP 135140100	
140				BMP 14014560	BMP 14014570	BMP 14014580	BMP 14014590	BMP 140145100				
145				BMP 14515060	BMP 14515070	BMP 14515080	BMP 14515090	BMP 145150100				
150	+0.100 -0.000	-0.043 -0.106	155	+0.040 -0.000	BMP 15015560	BMP 15015570	BMP 15015580	BMP 15015590	BMP 150155100			
155			BMP 15516060		BMP 15516070	BMP 15516080	BMP 15516090	BMP 155160100				
160			BMP 16016560		BMP 16016570	BMP 16016580	BMP 16016590	BMP 160165100				
165			BMP 16517060		BMP 16517070	BMP 16517080	BMP 16517090	BMP 165170100				
170			BMP 17017560		BMP 17017570	BMP 17017580	BMP 17017590	BMP 170175100				
175			BMP 17518060		BMP 17518070	BMP 17518080	BMP 17518090	BMP 175180100				
180			BMP 18018560		BMP 18018570	BMP 18018580	BMP 18018590	BMP 180185100				
185			BMP 18519060		BMP 18519070	BMP 18519080	BMP 18519090	BMP 185190100				
190			BMP 19019560		BMP 19019570	BMP 19019580	BMP 19019590	BMP 190195100				
195			BMP 19520060		BMP 19520070	BMP 19520080	BMP 19520090	BMP 195200100				
200			BMP 20020560		BMP 20020570	BMP 20020580	BMP 20020590	BMP 200205100				
205		BMP 20521060	BMP 20521070	BMP 20521080	BMP 20521090	BMP 205210100						
210	+0.115 -0.000	-0.050 -0.122	215	+0.046 -0.000	BMP 21021560	BMP 21021570	BMP 21021580	BMP 21021590	BMP 210215100			
215			BMP 21522060		BMP 21522070	BMP 21522080	BMP 21522090	BMP 215220100				
220			BMP 22022560		BMP 22022570	BMP 22022580	BMP 22022590	BMP 220225100				
225			BMP 22523060		BMP 22523070	BMP 22523080	BMP 22523090	BMP 225230100				
230			BMP 23023560		BMP 23023570	BMP 23023580	BMP 23023590	BMP 230235100				
240			BMP 24024560		BMP 24024570	BMP 24024580	BMP 24024590	BMP 240245100				
250					BMP 25025560	BMP 25025570	BMP 25025580	BMP 25025590	BMP 250255100			
260			+0.130 -0.000		-0.056 -0.137	265	+0.052 -0.000	BMP 26026560	BMP 26026570	BMP 26026580	BMP 26026590	BMP 260265100
280						BMP 28028560		BMP 28028570	BMP 28028580	BMP 28028590	BMP 280285100	
300						BMP 30030560		BMP 30030570	BMP 30030580	BMP 30030590	BMP 300305100	

Part numbers shown in table are plain bores
 If diamond pocketed bores are required add D after part number
 If thru holes are required add H after part number

Special dimensions and ID groove/lubrication configurations can be made to order

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Metric Flanged Heavy Duty Bearings
 in **TOUGHMET** Spinodal Bronze


ID	ID when in Housing +/- H9	Shaft Diameter +/- f7	OD	Housing Diameter +/- H7	Flange Dia +/- 0.5	Flange Radius Max	Standard Lengths												
							ID < 80 : Length +/- 0.25					ID ≥ 80 : Length +/- 0.50							
							5	10	15	20	25	30	35	40	50	60			
6	+0.030 -0.000	-0.010 -0.022	8	+0.015 -0.000	12	1	BMF 060512	BMF 061012											
8	+0.036 -0.000	-0.013 -0.028	10		15	1	BMF 080515	BMF 081015											
10				12	+0.018 -0.000	18	1		BMF 101018	BMF 101518	BMF 102018								
12	+0.043 -0.000	-0.016 -0.034	14	20		1		BMF 121020	BMF 121520	BMF 122020									
14			16	22		1		BMF 141022	BMF 141522	BMF 142022									
16			18	24		1		BMF 161024	BMF 161524	BMF 162024									
18			20	26		1		BMF 181026	BMF 181526	BMF 182026	BMF 182526								
20			+0.052 -0.000	-0.020 -0.041		23	+0.021 -0.000	30	1.5		BMF 201030	BMF 201530	BMF 202030	BMF 202530					
25					28	35	1.5			BMF 251535	BMF 252035	BMF 252535	BMF 253035						
30	34	45			2				BMF 302045	BMF 302545	BMF 303045	BMF 303545							
35	+0.062 -0.000	-0.025 -0.050	39	+0.025 -0.000	50	2			BMF 352050	BMF 352550	BMF 353050	BMF 353550							
40			44		55	2				BMF 402555	BMF 403055	BMF 403555	BMF 404055						
45			50	60	2.5						BMF 453060	BMF 453560	BMF 454060	BMF 455060					
50			55	65	2.5							BMF 503065	BMF 503565	BMF 504065	BMF 505065				
55	+0.074 -0.000	-0.030 -0.060	60	+0.030 -0.000	70	2.5					BMF 553070	BMF 553570	BMF 554070	BMF 555070					
60			65		75	2.5						BMF 603075	BMF 603575	BMF 604075	BMF 605075	BMF 606075			
65			70		80	2.5							BMF 653080	BMF 653580	BMF 654080	BMF 655080	BMF 656080		

ID	ID when in Housing +/- H9	Shaft Diameter +/- f7	OD	Housing Diameter +/- H7	Flange Dia +/- 0.5	Flanged Radius Max	Standard Lengths						
							ID < 80 : Length +/- 0.25				ID ≥ 80 : Length +/- 0.50		
							35	40	50	60	70	80	90
70	+0.074 -0.000	-0.030 -0.060	80	+0.030 -0.000	85	2.5	BMF 703585	BMF 704085	BMF 705085	BMF 706085	BMF 707085		
75			+0.035 -0.000	85	95		BMF 753595	BMF 754095	BMF 755095	BMF 756095	BMF 757095		
80				85	100			BMF 8040100	BMF 8050100	BMF 8060100	BMF 8070100	BMF 8080100	
90	+0.087 -0.000	-0.036 -0.071	95	+0.035 -0.000	110			BMF 9050110	BMF 9060110	BMF 9070110	BMF 9080110	BMF 9090110	
100			105		120			BMF 10050120	BMF 10060120	BMF 10070120	BMF 10080120	BMF 10090120	
110			115		130			BMF 11050130	BMF 11060130	BMF 11070130	BMF 11080130	BMF 11090130	
120			125		140				BMF 12060140	BMF 12070140	BMF 12080140	BMF 12090140	
130	+0.100 -0.000	-0.043 -0.083	135	+0.040 -0.000	155				BMF 13060155	BMF 13070155	BMF 13080155	BMF 13090155	
140			145		165			BMF 14060165	BMF 14070165	BMF 14080165	BMF 14090165		
150			155		180			BMF 15060180	BMF 15070180	BMF 15080180	BMF 15090180		
160			165		190			BMF 16060190	BMF 16070190	BMF 16080190	BMF 16090190		
170			175		200			BMF 17060200	BMF 17070200	BMF 17080200	BMF 17090200		
180	+0.115 -0.000	-0.050 -0.096	185	+0.046 -0.000	215				BMF 18060215	BMF 18070215	BMF 18080215	BMF 18090215	
190			195		225			BMF 19060225	BMF 19070225	BMF 19080225	BMF 19090225		
200			205		235			BMF 20060235	BMF 20070235	BMF 20080235	BMF 20090235		
225			230		260			BMF 22560260	BMF 22570260	BMF 22580260	BMF 22590260		
250	+0.130 -0.000	-0.056 -0.108	255	+0.052 -0.000	290				BMF 25060290	BMF 25070290	BMF 25080290	BMF 25090290	
265			270		305			BMF 26560305	BMF 26570305	BMF 26580305	BMF 26590305		
285			290		325			BMF 28560325	BMF 28570325	BMF 28580325	BMF 28590325		
300			305		340				BMF 30060340	BMF 30070340	BMF 30080340	BMF 30090340	

Part numbers shown in table are plain bores
 If diamond pocketed bores are required add D after part number
 If thru holes are required add H after part number

Special dimensions and ID groove/lubrication configurations can be made to order

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Metric Heavy Duty Washer in **TOUGHMET** Spinodal Bronze



Inside Diameter	Outside Diameter	Dowel Hole Diameter		Dowel Hole PCD		Standard Thicknesses	
						Thickness + 0.00 - 0.05	
						1.5	2
10	20	-	-	-	-	BMT 1020015	
12	24	1.75		18		BMT 1224015	
14	26	2.25		22		BMT 1426015	
16	30	2.25		25		BMT 1630015	
18	32	2.25		25		BMT 1832015	
20	36	2.25		30		BMT 2036015	
22	38	3.25		30		BMT 2238015	
24	42	3.25		33		BMT 2442015	
26	44	3.25	+0.125 -0.125	35	+0.12 -0.12	BMT 2644015	
28	48	4.25		38		BMT 2848015	
32	54	4.25		43		BMT 3254015	
38	62	4.25		50		BMT 3862015	
42	66	4.25		54		BMT 4266015	
48	74	4.25		61			BMT 4874020
52	78	4.25		65			BMT 5278020
62	90	4.25		76			BMT 6290020
95	115	4.25		106			BMT 95115020

Part numbers shown in table are plain faces
If diamond pocketed faces are required add D after part number
If thru holes are required add H after part number

Special dimensions and groove/lubrication configurations can be made to order

Metric Heavy Duty Plates in **TOUGHMET** Spinodal Bronze



Bearing plates are cut to order. Plates can have diamond pockets added.

Standard Thicknesses +/- 0.01

1.00mm

1.50mm

2.00mm

2.50mm

3.00mm

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Inch Plain Heavy Duty Bearings in **TOUGHMET** Spinodal Bronze



ID	ID when in Housing +/-	Shaft Diameter +/-	OD	Housing Diameter +/-	Standard Lengths															
					Length +/- 0.1"															
					3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/2	3 3/4	4 3/4
3/8 0.375	+0.0019 -0.0008	-0.0010 -0.0019	15/32 0.468	+0.00035 -0.00035	BMPI 0606	BMPI 0608		BMPI 0612												
7/16 0.437			17/32 0.531				BMPI 0708		BMPI 0712											
1/2 0.5			19/32 0.593				BMPI 0806	BMPI 0808	BMPI 0810		BMPI 0814									
9/16 0.562			21/32 0.656					BMPI 0908		BMPI 0912										
5/8 0.625	+0.0020 -0.0008		23/32 0.718	+0.00045 -0.00035		BMPI 1008	BMPI 1010	BMPI 1012	BMPI 1014											
3/4 0.75	+0.0025 -0.0007	0.0009 -0.0021	7/8 0.875	+0.0005 -0.0003		BMPI 1208		BMPI 1212		BMPI 1216										
7/8 0.875			1 1.00					BMPI 1412	BMPI 1414	BMPI 1416										
1 1.000	+0.0026 -0.0008		1 1/8 1.125	+0.0006 -0.0004				BMPI 1612		BMPI 1616		BMPI 1624								
1 1/8 1.125	+0.0028 -0.0010	-0.0012 -0.0024	1 9/32 1.281	+0.0005 -0.0004			BMPI 1812		BMPI 1816											
1 1/4 1.25			1 13/32 1.406					BMPI 2012		BMPI 2016	BMPI 2020		BMPI 2028							
1 3/8 1.37			1 17/32 1.531							BMPI 2216			BMPI 2228							
1 1/2 1.50			1 21/32 1.656							BMPI 2416	BMPI 2420	BMPI 2424								
1 5/8 1.625			1 25/32 1.781							BMPI 2616		BMPI 2624								
1 3/4 1.78		+0.0035 -0.0011	-0.0013 -0.0029		1 15/16 1.937	+0.0006 -0.0004				BMPI 2816		BMPI 2824	BMPI 2828							
1 7/8 1.875		+0.0037 -0.0011			2 1/16 2.0625	+0.0008 -0.0004				BMPI 3016				BMPI 3032						
2 2.00		-0.0013 -0.0031	2 3/16 2.187					BMPI 3216		BMPI 3224										
2 1/4 2.25	+0.0073 -0.0009	+0.0007 -0.0011	2 7/16 2.437	+0.0002 -0.0010								BMPI 3632	BMPI 3636	BMPI 3640	BMPI 3648					
2 1/2 2.5	+0.0077 -0.0013	+0.0011 -0.0007	2 11/16 2.687	+0.0006 -0.0006								BMPI 4032		BMPI 4040	BMPI 4048	BMPI 4056				
2 3/4 2.75	+0.0066 -0.0002	-0.0000 -0.0018	2 15/16 2.937	-0.0005 -0.0017								BMPI 4432		BMPI 4440	BMPI 4448	BMPI 4456				
3 3.00	+0.0068 -0.0002		3 3/16 3.187										BMPI 4832		BMPI 4848		BMPI 4860			
3 1/2 3.50	+0.0068 -0.0002	-0.0000 -0.0022	3 11/16 3.687	-0.0003 -0.0017											BMPI 5640	BMPI 5648		BMPI 5660		
4 4.0			4 3/16 4.187														BMPI 6448		BMPI 6460	BMPI 6476
5 5.0	+0.0056 -0.0012	-0.0014 -0.0039	5 3/16 5.187	-0.0015 -0.0031												BMPI 8048		BMPI 8060		
6 6.0	+0.0070 -0.0002	-0.0000 -0.0025	6 3/16 6.187	-0.0001 -0.0017												BMPI 9648		BMPI 9660		
7 7.0	+0.0026 -0.0044	-0.0046 -0.0071	7 3/16 7.187	-0.0045 -0.0065														BMPI 11260		

Part numbers shown in table are plain bores
If diamond pocketed bores are required add D after part number
If thru holes are required add H after part number

Special dimensions and ID groove/lubrication configurations can be made to order

Bowman International Limited reserve the right to change specification without prior notice E & OE

Inch Flanged Heavy Duty Bearings in **TOUGHMET** Spinodal Bronze



ID	ID when in Housing +/-	Shaft Diameter +/-	OD	Housing Diameter +/-	Flange Dia +/- 0.020	Flanged Radius Max	Standard Lengths									
							Length +/- 0.030"									
							1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	
3/8 0.375	+0.0029 +0.0002		15/32 0.4688	+0.0004 -0.0004	11/16 0.687		BMFI 0604	BMFI 0606	BMFI 0608							
1/2 0.5	+0.0029 +0.0002	-0.0000 -0.0010	19/32 0.5938	+0.0003 -0.0003	13/16 0.812		BMFI 0804	BMFI 0806	BMFI 0808							
5/8 0.625	+0.0030 +0.0002		23/32 0.7188	+0.0004 -0.0003	15/16 0.937			BMFI 1006	BMFI 1008	BMFI 1010						
3/4 0.75			7/8 0.8750		1 1/8 1.125			BMFI 1206	BMFI 1208		BMFI 1212					
7/8 0.875	+0.0034 +0.0002	-0.0000 -0.0012	1 1.0000	+0.0005 -0.0003	1 1/4 1.250				BMFI 1408		BMFI 1412	BMFI 1416				
1 1.000			1 1/8 1.1250		1 3/8 1.375				BMFI 1608		BMFI 1612	BMFI 1616				
1 1/4 1.250	+0.0040 +0.0002		1 13/32 1.4063	+0.0006 -0.0005	1 3/4 1.750							BMFI 2016	BMFI 2020	BMFI 2024		
1 1/2 1.500		-0.0000 -0.0016	1 21/32 1.6563		2 2.000								BMFI 2416		BMFI 2424	BMFI 2432
1 3/4 1.750	+0.0048 +0.0002		1 15/16 1.9375	+0.0006 -0.0004	2 3/8 2.375								BMFAI 2816		BMFI 2824	BMFI 2832

Part numbers shown in table are plain bores
If diamond pocketed bores are required add D after part number
If thru holes are required add H after part number

Special dimensions and ID groove/lubrication configurations can be made to order

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Inch Heavy Duty Washer in **TOUGHMET** Spinodal Bronze



Inside Diameter		Outside Diameter		Dowel Hole Diameter		Dowel Hole PC D		Standard Thicknesses	
								Thickness + 0.001 - 0.01	
								1/16	3/32
1/2 0.5		7/8 0.865		0.6870		0.077 0.067		BMTI 06	
9/16 0.562		1 1.000		0.7810				BMTI 07	
5/8 0.625		1 1/8 1.125		0.8750				BMTI 08	
11/16 0.687		1 1.187		0.9370		0.109 0.099		BMTI 09	
3/4 0.750		1 1/4 1.250		1.0000				BMTI 10	
13/16 0.812		1 3/8 1.375		1.0940				BMTI 11	
7/8 0.875		1 1/2 1.500		1.1870		0.140 0.130		BMTI 12	
1 1.00		1 3/4 1.750		1.3750				BMTI 14	
1 1/8 1.125	+0.010 -0.000	2 2.000	-0.000 -0.010	1.5620	+0.001 -0.000		+0.000 -0.001	BMTI 16	
1 1/4 1.25		2 1/8 2.125		1.6870		0.171 0.161		BMTI 18	
1 5/8 1.375		2 1/4 2.250		1.8020				BMTI 20	
1 1/2 1.500		2 1/2 2.500		2.0000				BMTI 22	
1 5/8 1.625		2 5/8 2.625		2.1250				BMTI 24	
1 3/4 1.750		2 3/4 2.750		2.2500		0.202 0.192		BMTI 26	
2 2.00		3 3.00		2.5000					BMTI 28
2 1/8 2.125		3 1/8 3.125		2.6250					BMTI 30
2 1/4 2.250		3 1/4 3.250		2.7500					BMTI 32

Part numbers shown in table are plain faces
If diamond pocketed faces are required add D after part number
If thru holes are required add H after part number

Special dimensions and groove/lubrication configurations can be made to order

Inch Heavy Duty Plates in **TOUGHMET** Spinodal Bronze



Bearing plates are cut to order. Plates can have diamond pockets added.

Standard Thicknesses +/- 0.0004

3/64" 0.0469	1/16" 0.0625	5/64" 0.0781	3/32" 0.0938
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Other **BOWMAN**® Products



PTFE Lined Wrapped Bearings



Sintered Bronze Lined Wrapped Bearings



Acetal Lined Wrapped Bearings



Plastic Bearings



Ball Bearings



White Metal Bearings



CuSn8 Hard Bronze Bearings



Full Machining Service



Bronze Bearings Graphite Loaded



Oilite® Sintered Shapes



Oilite® Sintered Bearings

See also: **BOWMAN** Oilite® Sintered Bearings Catalogue
and **BOWMAN** Bearings and Components Catalogue