



Guideline for greasing GMN spindle bearings with grease density class I

Series 60 and 62 (cage TA / MA)

The standard grease fill is 30% of the free space with a tolerance of $\pm 5\%$ in relation to a 100% grease fill. If a low running friction or particularly smooth running of a bearing is required, 20 - 25% grease fill is recommended. In order to achieve a long service life the grease fill should be 35%.

For bearing series other than S and for cages other than TA the values in the tables can be taken as guiding values. Weight of grease of another density class than class I is to be multiplied by the corresponding correction factor shown in the table below.

Extreme cleanliness during greasing and mounting of the bearings is of utmost importance.

Values in tables in milligrams (mg).
1 gram (g) = 0.035 oz

Bearing type	20%	25%	30%	35%	40%	100%
S 605	29	36	43	50	58	144
S 606	42	52	63	73	84	210
S 607	70	88	106	123	141	352
S 608	110	138	165	193	220	550
S 609	125	156	188	219	250	625
S 6000	172	215	258	301	344	859
S 6001	190	238	285	333	380	950
S 6002	263	329	395	461	526	1316
S 6003	353	441	529	617	706	1764
S 6004	624	781	937	1093	1249	3122
S 6005	695	869	1043	1217	1391	3477
S 6006	991	1239	1487	1735	1982	4956
S 6007	1410	1762	2115	2467	2820	7049
S 6008	1664	2080	2496	2913	3329	8321
S 6009	2158	2698	3237	3777	4316	10791
S 6010	2340	2925	3510	4096	4681	11702
S 6011	3101	3877	4652	5427	6203	15506
S 6012	3265	4081	4897	5713	6529	16323
S 6013	3517	4396	5275	6154	7033	17583
S 6014	5113	6391	7670	8948	10226	25565
S 6015	5422	6778	8133	9489	10844	27111
S 6016	7220	9024	10829	12634	14439	36098
S 6017	7571	9463	11356	13249	15141	37853
S 6018	9725	12156	14587	17018	19449	48623
S 6019	10167	12708	15250	17792	20333	50833
S 6020	10556	13195	15834	18473	21112	52781
S 6021	12942	16178	19413	22649	25884	64710
S 6022	15932	19915	23898	27881	31864	79660
S 6024	16928	21160	25392	29624	33856	84641

Bearing type	20%	25%	30%	35%	40%	100%
S 625	43	53	64	75	85	214
S 626	70	88	106	123	141	352
S 627	110	138	165	193	220	550
S 629	172	215	258	301	344	859
S 6200	243	303	364	424	485	1213
S 6201	316	395	475	554	633	1582
S 6202	447	558	670	781	893	2233
S 6203	591	739	887	1035	1182	2956
S 6204	946	1182	1419	1655	1891	4729
S 6205	1224	1530	1836	2142	2448	6121
S 6206	1683	2104	2525	2946	3367	8417
S 6207	2261	2826	3391	3956	4521	11303
S 6208	2975	3719	4462	5206	5950	14875
S 6209	3600	4500	5400	6300	7199	17999
S 6210	4275	5344	6413	7482	8550	21376
S 6211	5263	6579	7895	9210	10526	26316
S 6212	6615	8269	9923	11577	13230	33076
S 6213	7755	9693	11632	13571	15510	38774

Bearing type	20%	25%	30%	35%	40%	100%
KH 6000	94	118	141	165	188	471
KH 6001	139	174	208	243	278	694
KH 6002	181	227	272	317	363	907
KH 6003	240	300	360	420	480	1201
KH 6004	470	587	704	822	939	2348
KH 6005	557	697	836	976	1115	2787
KH 6006	721	902	1082	1263	1443	3607
KH 6007	1026	1282	1539	1735	2052	5130
KH 6008	1254	1567	1880	2194	2507	6268
KH 6009	1615	2019	2422	2826	3230	8074
KH 6010	1704	2131	2557	2983	3409	8522
KH 6011	2441	3052	3662	4272	4883	12207
KH 6012	2607	3259	3911	4563	5215	13037
KH 6013	2775	3469	4163	4857	5551	13877
KH 6014	3985	4982	5978	6974	7971	19926

Correction factor for grease density class other than density class I ($\zeta = 0.905 \text{ g/cm}^3$)

Density class	Grease density [g/cm ³]	Correction factor
0	0.820 - 0.879	0.94
I	0.880 - 0.930	1.00
II	0.931 - 0.990	1.06
III	0.991 - 1.090	1.15
IV	1.091 - 1.190	1.26
V	1.191 - 1.300	1.37
V/1	1.301 - 1.410	1.50
V/2	1.411 - 1.520	1.62
V/3	1.521 - 1.640	1.74
V/4	1.641 - 1.772	1.88
VI	1.831 - 1.970	2.08