



Avdel

TECHNICAL DATA

MATERIAL

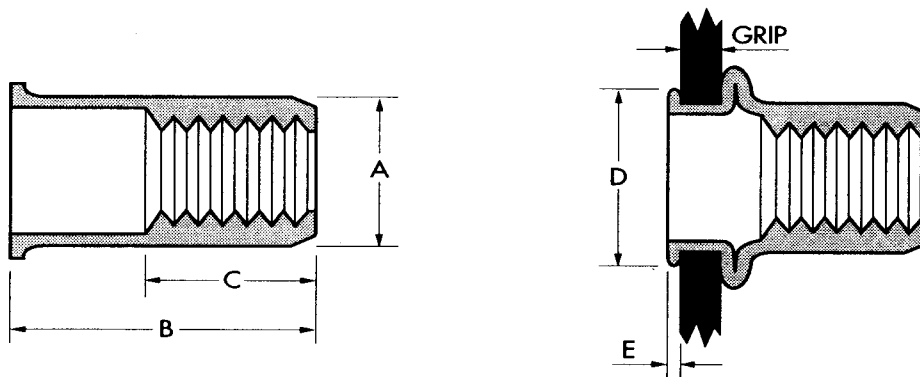
Low carbon steel
to B.S.970-040 A04

FINISH

Zinc plated and passivated
to B.S. 3382

THIN SHEET NUTSERT

9650 series



METRIC DIMENSIONS

Recommended hole size min./max.	Grip Range min./max.	A max.	B max.	C max.	D max.	E max.
7.14/7.23	0.51/3.00	7.11	11.81	6.10	8.00	0.51
9.53/9.61	0.76/3.25	9.50	14.60	8.51	10.67	0.76
10.60/10.68	0.91/3.25	10.57	16.00	9.27	11.68	0.76
9.53/9.61	0.76/3.25	9.50	14.60	8.51	10.67	0.76
10.60/10.68	0.91/3.25	10.57	16.00	9.27	11.68	0.76
6.35/6.44	0.51/2.00	6.32	10.41	6.35	6.86	0.51
7.14/7.23	0.51/3.00	7.11	11.81	6.10	8.00	0.51
9.53/9.60	0.76/3.25	9.50	14.60	8.51	10.67	0.76
9.53/9.61	0.76/3.25	9.50	14.60	8.51	10.67	0.76
10.60/10.68	0.91/3.25	10.57	16.00	9.27	11.68	0.76
6.35/6.44	0.51/2.00	6.32	10.41	6.35	6.86	0.51
6.35/6.44	0.51/2.00	6.32	10.41	6.35	6.86	0.51
7.14/7.23	0.51/3.00	7.11	11.81	6.10	8.00	0.51
9.53/9.61	0.76/3.25	9.50	14.60	8.51	10.67	0.76
10.60/10.68	0.91/3.25	10.57	16.00	9.27	11.68	0.76
6.35/6.44	0.51/2.00	6.32	10.41	6.35	6.86	0.51
6.35/6.44	0.51/2.00	6.32	10.41	6.35	6.86	0.51
7.14/7.23	0.51/3.00	7.11	11.81	6.10	8.00	0.51
4.75/4.84	0.51/1.50	4.72	9.02	5.47	5.84	0.38
6.35/6.44	0.51/2.00	6.32	10.41	6.48	6.86	0.51
7.14/7.23	0.51/3.00	7.11	11.81	6.23	8.00	0.51
9.53/9.61	0.76/3.25	9.50	14.60	8.64	10.67	0.76
10.60/10.68	0.91/3.70	10.57	16.00	10.03	11.68	0.76
14.20/14.28	1.00/3.60	14.17	18.50	9.55	16.20	0.76
16.20/16.28	1.40/4.00	16.17	19.50	10.75	18.22	0.76

Thread type & size

PART N°

IMPERIAL DIMENSIONS

Recommended hole size min./max.	Grip Range min./max.	A max.	B max.	C max.	D max.	E max.
.281/.2845	.020/.118	.280	.465	.240	.315	.020
.375/.3785	.030/.128	.374	.575	.335	.420	.030
.417/.4205	.036/.128	.416	.630	.365	.460	.030
.375/.3785	.030/.128	.374	.575	.335	.420	.030
.417/.4205	.036/.128	.416	.630	.365	.460	.030
.250/.2535	.020/.079	.249	.410	.250	.270	.020
.281/.2845	.020/.118	.280	.465	.240	.315	.020
.375/.3785	.030/.128	.374	.575	.335	.420	.030
.375/.3785	.030/.128	.374	.575	.335	.420	.030
.417/.4205	.036/.128	.416	.630	.365	.460	.030
.250/.2535	.020/.079	.249	.410	.250	.270	.020
.250/.2535	.020/.079	.249	.410	.250	.270	.020
.281/.2845	.020/.118	.280	.465	.240	.315	.020
.375/.3785	.030/.128	.374	.575	.335	.420	.030
.417/.4205	.036/.128	.416	.630	.365	.460	.030
.250/.2535	.020/.079	.249	.410	.250	.270	.020
.250/.2535	.020/.079	.249	.410	.250	.270	.020
.281/.2845	.020/.118	.280	.465	.240	.315	.020
.187/.1905	.020/.059	.186	.355	.215	.230	.015
.250/.2535	.020/.079	.249	.410	.255	.270	.020
.281/.2845	.020/.118	.280	.465	.245	.315	.020
.375/.3785	.030/.128	.374	.575	.340	.420	.030
.417/.4205	.036/.146	.416	.630	.395	.460	.030
.559/.562	.039/.142	.558	.728	.376	.638	.030
.638/.641	.055/.157	.637	.768	.423	.717	.030

NOTE: Part numbers reversed white out of black are non-standard inserts and are subject to special quotation and delivery.

Thin Sheet Nutserts can be supplied lubricated or unlubricated.

Lubricated Thin Sheet Nutserts must not be de-greased before use.

A '2' in the seventh digit of the part number indicates that the insert is NOT lubricated.

Inserts for use with the Autosert machine MUST be unlubricated.

M10 and M12 unlubricated nutserts can ONLY be placed with the 7555 and 74200 tool series.

NUTSERT IS A REGISTERED TRADEMARK. THIN SHEET NUTSERT AND AUTOSERT ARE TRADEMARKS OF AVDEL SYSTEMS LIMITED.

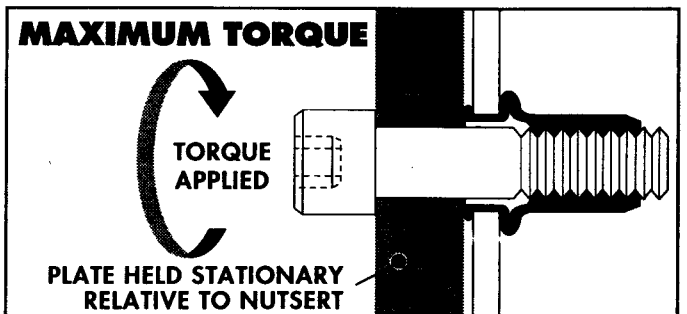
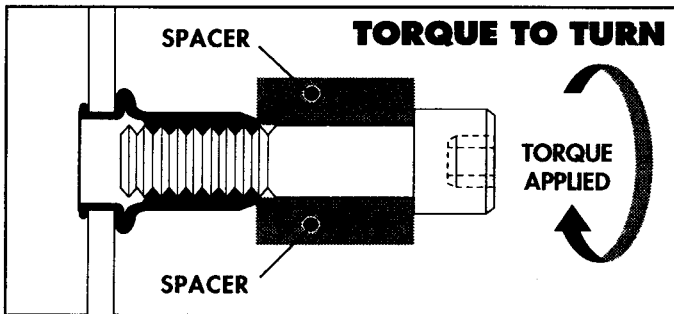
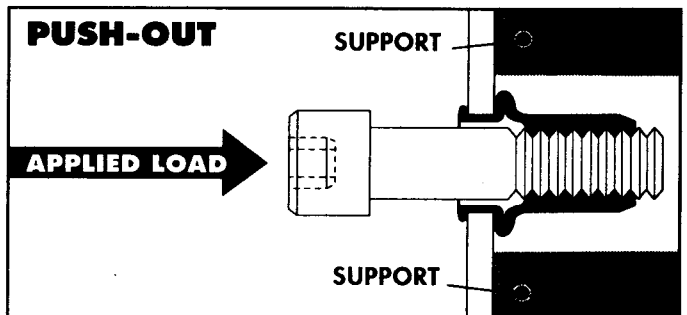
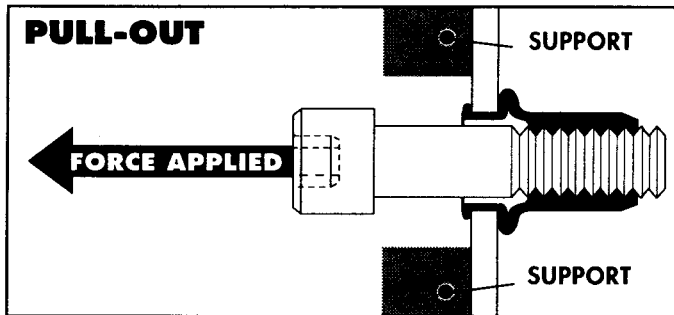
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DATA SHEET REFERENCE

(9651c-9652b-9653d-9654b-9655c-9656b-9657d-9658d²)

TSN9650/MAR 94

PERFORMANCE DATA



The diagrams above illustrate the nature of the tests conducted to obtain typical strength figures below.

METRIC UNITS				Thread type & size	IMPERIAL UNITS			
PULL OUT N	PUSH OUT N	TORQUE TO TURN Nm	MAXIMUM TORQUE TO BE APPLIED TO BOLT Nm		PULL OUT lbf	PUSH OUT lbf	TORQUE TO TURN lbf/in ²	MAXIMUM TORQUE TO BE APPLIED TO BOLT lbf/in ² *
5693	1979	2.60	7.9	3/16 BSW	1280	445	23	70
6761	2491	3.39	12.4	1/4 BSW	1520	560	30	110
14,678	2811	3.50	16.4	5/16 BSW	3300	632	31	145
6761	2491	3.39	12.4	1/4 BSF	1520	560	30	110
14,678	2811	3.50	16.4	5/16 BSF	3300	632	31	145
4092	1379	1.92	5.1	4 BA	920	310	17	45
5693	1979	2.60	7.9	2 BA	1280	445	23	70
6761	2491	3.39	12.4	0 BA	1520	560	30	110
6761	2491	3.39	12.4	1/4 UNC	1520	560	30	110
14,678	2811	3.50	16.4	5/16 UNC	3300	632	31	145
4092	1379	1.92	5.1	6 UNC	920	310	17	45
4092	1379	1.92	5.1	8 UNC	920	310	17	45
5693	1979	2.60	7.9	10 UNC	1280	445	23	70
6761	2491	3.39	12.4	1/4 UNF	1520	560	30	110
14,678	2811	3.50	16.4	5/16 UNF	3300	632	31	145
4092	1379	1.92	5.1	6 UNF	920	310	17	45
4092	1379	1.92	5.1	8 UNF	920	310	17	45
5693	1979	2.60	7.9	10 UNF	1280	445	23	70
2758	867	.40	1.47	M3 x 0.5	620	195	3.5	13
4092	1379	1.92	5.1	M4 x 0.7	920	310	17	45
5693	1979	2.60	7.9	M5 x 0.8	1280	445	23	70
6761	2491	3.39	12.4	M6 x 1.00	1520	560	30	110
14,678	2811	3.50	16.4	M8 x 1.25	3300	632	31	145
-	-	-	33.9	M10 x 1.5	-	-	-	300
-	-	-	41.8	M12 x 1.75	-	-	-	370

* The hole clearance in the top sheet should not exceed the diameter of the bolt to be inserted by more than .020" (.5mm).