



Rivet Mechanical Properties

Break Mandrel Blind Rivets

Rivet Mechanical Properties												
Rivet Series #	Nominal Diameter (mm)	Unit of Load	Aluminium Shell - Aluminium Mandrel				Steel Shell - Steel Mandrel		304/316 Stainless Steel Shell - 304/316 Stainless Steel Mandrel		Ni/Cu (Monel) Shell - Steel Mandrel	
			Aluminium Shell - Steel Mandrel						304/316 Stainless Steel Shell - Steel Mandrel			
			IFI 114 (Grade 11)		IFI 114 (Grade 19)		IFI 114 (Grade 30)		IFI 114 (Grade 50, 51)		IFI 114 (Grade 40)	
			Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile	Shear
			3	2.4	lbf	80	70	120	90	170	130	280
kgf	36	32			54	41	77	59	127	163	113	91
N	356	311			534	400	756	578	1246	1601	1112	890
4	3.2	lbf	150	120	220	170	310	260	530	420	450	350
		kgf	68	54	100	77	141	118	241	191	205	159
		N	667	534	979	756	1379	1157	2358	1868	2002	1557
5	4.0	lbf	230	190	350	260	470	370	820	650	700	550
		kgf	104	86	159	118	214	168	373	295	318	250
		N	1023	845	1557	1157	2091	1646	3648	2891	3114	2447
6	4.8	lbf	320	260	500	380	680	540	1200	950	1000	800
		kgf	145	118	227	173	309	245	545	432	455	364
		N	1423	1157	2224	1690	3025	2402	5338	4226	4448	3559
8	6.3	lbf	560	460	920	700	1240	1000	2100	1700	1850	1400
		kgf	254	209	418	318	564	455	955	773	841	636
		N	2491	2046	4092	3114	5516	4448	9341	7562	8229	6228

Note: Copper rivets are not subjected to shear and tensile testing.

Source IFI 114



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