

*LORANTZ FORCES*

Schedule of Mu Test Combinations - Rev.1 - GJG 1/15/07						
	Center Element Tensile Cross-Section - 1" x .38" - Yield -9500#					
	Area in Contact - 2 in**2					
	Contact Pressure Maximum - 10 ksi					
Combination Number	Description of Center Element Surface Treatment 300 Series SS (unless otherwise stated)	Description of Side Plates 300 Series SS	Contact Pressure (ksi)	Temperature (K)	Notes	
1	Mill Finish	Mill Finish	4	293	Complete $\mu=.26$	
2	Mill Finish	Mill Finish	6	293	Complete $\mu=.21$	
3	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Room Temp Lay-up	Mill Finish	2	293	Complete $\mu=.48$	
4	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Room Temp Lay-up	Mill Finish	2	77 (immersed)	Complete $\mu=.48$	
5	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Room Temp Lay-up	Mill Finish	4	293	Complete $\mu=.53$	
6	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Room Temp Lay-up	Mill Finish	4	77 (immersed)	Complete $\mu=.49$	
7	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Room Temp Lay-up	Mill Finish	6	293	Complete $\mu=.50$	
8	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Room Temp Lay-up	Mill Finish	6	77 (immersed)	Complete $\mu=.53$	
9	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Warmed Lay-up	100/125 $\mu$ inch	6	293	By Jan. 20	
10	100/120 (6 mil) Diamond, Grit Blast, Stycast Resin with 23LV Hardener, Warmed Lay-up	100/125 $\mu$ inch	6	77 (immersed)	By Jan. 20	again but milled and immersed/boiled down
11	100/120 (6 mil) Diamond, Grit Blast, CTD 540, Room Temp Lay-up	100/125 $\mu$ inch	6	293	By Jan. 20	
12	100/120 (6 mil) Diamond, Grit Blast, CTD 540, Room Temp Lay-up	100/125 $\mu$ inch	6	77 (immersed)	By Jan. 20	
13	50/60 (12 mil) Diamond, Grit Blast, CTD-540, Room Temp Lay-up	100/125 $\mu$ inch	6	293	By Jan. 20	
14	50/60 (12 mil) Diamond, Grit Blast, CTD-540, Room Temp Lay-up	100/125 $\mu$ inch	6	77 (immersed)	By Jan. 20	
15	50/60 (12 mil) Diamond, Grit Blast, "Light" Electroless Nickel Binder	100/125 $\mu$ inch	6	293		
16	50/60 (12 mil) Diamond, Grit Blast, "Light" Electroless Nickel Binder	100/125 $\mu$ inch	6	77 (immersed)		same but boiled down
17	50/60 (12 mil) Diamond, Grit Blast, "Standard" Electroless Nickel Binder	100/125 $\mu$ inch	6	293		
18	50/60 (12 mil) Diamond, Grit Blast, "Standard" Electroless Nickel Binder	100/125 $\mu$ inch	6	77 (immersed)	By Jan. 20	dry or immersed, we'll see depending on above
19	100/125 $\mu$ inch with 2 each Braziler ZZ mil diamond double sided on 4 mil shim stock	100/125 $\mu$ inch	6	293	In Planning	
20	100/125 $\mu$ inch with 2 each Braziler ZZ mil diamond double sided on 4 mil shim stock	100/125 $\mu$ inch	6	77 (immersed)	In Planning	
21	100/125 $\mu$ inch with 2 each EKAgrip ZZ mil diamond double sided on 4 mil shim stock	100/125 $\mu$ inch	6	293	In Planning	

9500 PSI

8700 / 573 / 12000

80K NOT 77

80K

6396 / 53 / 12000

6357 / 53 / 12000

80K

Memo #1.7

load warm

load warm

load warm

22	100/125 µinch with 2 each EKAgrip ZZ mil diamond double sided on 4 mil shim stock	100/125 µinch	6	77 (immersed)	In Planning	
23	100/125 µinch	100/125 µinch	6	293		do next
24	<del>100/125 µinch</del> 320 GRIT	100/125 µinch	6	77 (immersed)		do next
25	Grit Blasted	100/125 µinch	6	293		
26	Grit Blasted	100/125 µinch	6	77 (immersed)		
27	Grit Blasted	Mill Finish	6	293		
28	Grit Blasted	Mill Finish	6	77 (immersed)		
29	40 Grit Paper (Long)	100/125 µinch	6	293		
30	40 Grit Paper (Long)	100/125 µinch	6	77 (immersed)		
31	40 Grit Paper (Long)	40 Grit Paper (Long)	6	293		
32	40 Grit Paper (Long)	40 Grit Paper (Long)	6	77 (immersed)		
33	40 Grit Paper (Transverse)	40 Grit Paper (Transverse)	6	293		
34	40 Grit Paper (Transverse)	40 Grit Paper (Transverse)	6	77 (immersed)		
35	Untreated G-10	100/125 µinch	6	293		
36	Untreated G-10	100/125 µinch	6	77 (immersed)		
37	G-10, 100 Grit Paper (Orbital)	100/125 µinch	6	293		
38	G-10, 100 Grit Paper (Orbital)	100/125 µinch	6	77 (immersed)		
39	G-10, 100 Grit Paper (Orbital)	40 Grit Paper (Orbital)	6	293		
40	G-10, 100 Grit Paper (Orbital)	40 Grit Paper (Orbital)	6	77 (immersed)		
41	CTD lay-up on grit blasted main element	CTD lay-up on grit blasted side plates	2	293		
42	CTD lay-up on grit blasted main element	CTD lay-up on grit blasted side plates		77 (immersed)		
43	CTD lay-up on grit blasted main element	CTD lay-up on grit blasted side plates	6	293		
44	CTD lay-up on grit blasted main element	CTD lay-up on grit blasted side plates		77 (immersed)		
45	CTD lay-up on grit blasted main element	CTD lay-up on grit blasted side plates	10	293		
46	CTD lay-up on grit blasted main element	CTD lay-up on grit blasted side plates		77 (immersed)		

← 7800/12400  
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