

Bulletin 410C

PLAINTIFF'S EXHIBIT

MAR-375

MAR

002339

**MAREMONT PRODUCT ENGINEERING DEPARTMENT
ENGINEERING BULLETIN**

Bulletin No. 410C

Supplement No.

Product: FRICTION MATERIALS

Date 9-17-75

Subject: Dimensional Specifications for
Clutch Facings

Page 1 of 11

Superseding No. 410B

Reference:

This Engineering Bulletin lists dimensional specifications for
Clutch Facings:

Material Prefixes

298 Maremont Manufactured (Woven)
298 Purchased (Woven)
297 Purchased (Moulded)
299 Maremont Manufactured (Woven) - Blemished

Preform Weight

Preform weights listed are either calculated or established by
experience and practice factors due to mould variations.

Calculated weights are based on:

$$W = VW$$

Where W = Weight in Grams

V = Volume of Finished Facing in in³.

(Nominal dimensions plus .025" additional thickness
to allow for grinding)

$$w = 37 \text{ grams/in}^3$$

Preform weights are shown only for Maremont Manufactured Facings.

Distribution:

Issued By:

F. C. Skelton

Approved By:

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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
001						
002						
003						
004						
005						
006						
007						
008						
009						
010						
011	736G		011	011	7.875 x 5.125 x .129	
012	749A		012		7.500 x 5.000 x .125	
013						
014	750C		014	014	7.875 x 5.125 x .138	
015						
016						
017						
018						
019						
020						
021						
022						
023	773		023	023	7.094 x 4.922 x .150	
024						
025						
026						
027						
028						
029						
030						
031						
032						
Date	E.C.O. No.	Line	Description of Change			APP.
9-17-75	60-5771		SUPERSEDING BULLETIN NO. 410B			FCS

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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
033 034 035 036	821B	036			8.000 x 5.375 x .125	170
037 038 039 040	857B	040		040	8.500 x 5.375 x .125	200
041 042 043 044	877B 884 884X	042 043	041	042	8.875 x 5.750 x .127 8.500 x 5.125 x .135 8.500 x 5.125 x .156	210 250
045 046 047 048						
049 050 051 052						
053 054 055 056	909	056		056	9.125 x 6.125 x .135	235
057 058 059 060	909A 909B 909C	057 058 059		057 059	9.125 x 6.125 x .135 9.125 x 6.125 x .135 9.125 x 6.125 x .135	235 235 235
061 062 063 064	909X 909Y 946A	061 062	064		9.125 x 6.125 x .125 9.125 x 6.125 x .125 9.500 x 6.500 x .114	235 235
Date	E.C.O. No.	Line	Description of Change			APP.
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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
065						
066						
067	955B		067	067	9.000 x 5.750 x .137	
068	955C		068	068	9.000 x 5.750 x .143	
069						
070						
071						
072						
073						
074						
075						
076						
077						
078						
079						
080	990A	080			9.500 x 6.000 x .125	245
081	990B	081		081	9.500 x 6.000 x .125	245
082	990C	082			9.500 x 6.000 x .125	245
083	990Z	083			9.500 x 6.000 x .125	245
084						
085						
086	993A	086		086	9.250 x 6.000 x .125	240
087	993Z	087			9.250 x 6.000 x .125	240
088	997		088		9.875 x 6.125 x .143	
089						
090						
091						
092						
093	1005A	093		093	10.000 x 6.750 x .125	230
094	1005B	094		094	10.000 x 6.750 x .125	230
095						
096	1007A	096			10.000 x 6.500 x .125	260
Date		E.C.O. No.	Line	Description of Change		APP.
9-17-75		60-5771		SUPERSEDING BULLETIN NO. 410B		FCS
8-12-76		60-5911	093,094	Preform Wt. 230 was 255		SFW
2-4-77		60-5961	083,087	Release		SFW

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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
097 098 099 100						
101 102 103 104						
105 106 107 108	1051A	105			10.000 x 6.500 x .135	275
109 110 111 112	1056B	108		108	10.000 x 6.000 x .135	300
	1056D	109			10.000 x 6.000 x .135	300
	1056E	110		110	10.000 x 6.000 x .135	300
113 114 115 116	1057B	113		113	10.000 x 6.000 x .125	280
	1057E	115		115	10.000 x 6.000 x .125	280
	1057X	116			10.000 x 6.000 x .125	280
117 118 119 120	1057F	117		117	10.000 x 6.000 x .125	280
121 122 123 124	1059A	123		123	10.500 x 6.500 x .125	295
	1059B	124			10.500 x 6.500 x .125	295
125 126 127 128	1062		127		10.875 x 6.875 x .143	
	1064	128			10.750 x 7.000 x .140	325
Date	E.C.O. No.	Line	Description of Change			APP.
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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
129	1077		129		10.875 x 7.063 x .138	
130						
131	1087	131			10.500 x 7.000 x .125	295
132						
133						
134						
135						
136						
137						
138						
139						
140	1095	140			10.500 x 6.500 x .135	320
141						
142						
143						
144						
145						
146						
147	1142E	147			11.000 x 6.500 x .140	340
148	1142H	148			11.000 x 6.500 x .137	340
149	1142G	149			11.000 x 6.500 x .137	340
150	1142J		150		11.000 x 6.500 x .137	
151						
152						
153	1148D		153		11.875 x 6.750 x .161	
154						
155						
156						
157						
158						
159						
160						
Date		E.C.O. No.	Line	Description of Change		APP.
9-17-75		60-5771		SUPERSEDING BULLETIN NO. 410B		FCS
8-12-76		60-5911	147, 148, 149	Preform wt. 340 was 380		SFW

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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
161						
162						
163						
164	1166	164			11.000 x 6.500 x .137	340
165	1166A	165		165	11.000 x 6.500 x .135	340
166						
167	1169A	167			11.000 x 6.500 x .125	340
168	1169B	168			11.000 x 6.500 x .125	340
169	1170A		169		11.500 x 7.000 x .125	
170	1173	170			11.000 x 7.000 x .137	350
171	1174	171		171	11.000 x 7.000 x .125	330
172						
173	1185	173			11.000 x 6.500 x .156	435
174						
175						
176	1185D	176			11.000 x 6.500 x .156	435
177						
178	1185A	178			11.000 x 6.500 x .156	435
179						
180						
181						
182						
183						
184						
185						
186						
187	1235	187			12.000 x 7.000 x .137	435
188	1236B		188		12.875 x 7.250 x .156	
189	1236C		189		12.875 x 7.250 x .150	
190	1267	190			12.000 x 7.000 x .160	510
191						
192						
Date		E.C.O. No.	Line	Description of Change		APP.
9-17-75		60-5771		SUPERSEDING BULLETIN NO. 410B		FCS
8-12-76		60-5911	164, 65, 67, 68	Preform Wts. were 375, 375, 350, 350		SFW
3-11-77		60-5965	178	Part No. was 1185S		SFW

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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
193	1248	194			12.000 x 7.000 x .156	535
194						
195						
196						
197						
198						
199						
200						
201						
202						
203						
204						
205	1277A	196			12.875 x 7.000 x .165	600
206						
207						
208						
209						
210						
211						
212						
213						
214						
215	1270		197		12.875 x 7.000 x .133	
216						
217						
218						
219						
220						
221						
222						
223						
224						
225	1275		198		12.000 x 6.500 x .156	
226						
227						
228						
229						
230						
231						
232						
233						
234						
235	1276		199		12.875 x 7.000 x .156	
236						
237						
238						
239						
240						
241						
242						
243						
244						
245	1325D		213		13.750 x 7.250 x .187	
246						
247						
248						
249						
250						
251						
252						
253						
254						
255	1365		223		13.000 x 7.000 x .156	
256						
257						
258						
259						
260						
261						
262						
263						
264						

Date	E.C.O. No.	Line	Description of Change	APP.
9-17-75	60-5771	196	SUPERSEDING BULLETIN NO. 410B Preform Wt. 600 was 670	FCS SFW
8-12-76	60-5911			

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DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
225						
226						
227						
228						
229						
230						
231						
232						
233						
234	1373		234		13.875 x 8.375 x .187	
235						
236	1374		236		13.750 x 8.000 x .156	
237						
238						
239	1388		239		13.000 x 7.313 x .181	
240						
241						
242						
243						
244						
245						
246						
247						
248						
249						
250	1409E		250		14.000 x 8.000 x .158	
251						
252						
253						
254						
255						
256						
Date	E.C.O. No.	Line	Description of Change			APP.
9-17-75	60-5771		SUPERSEDING BULLETIN NO. 410B			FCS

DIMENSIONAL SPECIFICATIONS
CLUTCH FACINGS

Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
257 258 259 260						
261 262 263 264						
265 266 267 268	8018A 8020	268	267	267 268	8.000 x 6.000 x .135 8.500 x 5.375 x .137	225
269 270 271 272	8025A		270		8.500 x 5.750 x .125	
273 274 275 276	9008 9009 9012A 9014	275 276	273 274	275 276	9.250 x 6.000 x .114 9.500 x 6.000 x .116 9.500 x 6.000 x .135 9.125 x 6.125 x .125	270 205
277 278 279 280	9020 9021 9029		277 278 279	278 279	9.875 x 6.250 x .140 9.000 x 6.000 x .125 9.063 x 6.000 x .125	
281 282 283 284	10000	284		284	10.406 x 6.500 x .135	315
285 286 287 288	10000A 1367 1325C 1335	285 286 287 288		285	10.406 x 6.500 x .137 13.750 x 7.375 x .175 13.750 x 7.250 x .187 13.875 x 8.000 x .187	315 790 795 770
Date	E.C.O. No.	Line	Description of Change			APP.
9-17-75	60-5771		SUPERSEDING BULLETIN NO. 410B			FCS

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Suffix No.	FMSI No.	Manu- factured Woven 298-	Purchased Woven 298-	Purchased Moulded 297-	Dimension (inches) O.D. x I.D. x Thick.	Preform Weight (Grams)
289	1517	289			15.000 x 8.000 x .187	950
290	1430A	290			14.875 x 8.000 x .190	965
291	1312	291			13.750 x 7.375 x .187	820
292	1367S	292			13.750 x 7.375 x .156	710
293						
294						
295	1553	295			15.250 x 8.875 x .187	930
296						
297						
298	9012B	298			9.500 x 6.000 x .137	270
299						
300	11004		300		11.875 x 6.750 x .140	
301						
302	1173A		302		11.000 x 7.000 x .135	
303	1174A		303		11.000 x 7.000 x .125	
304						
305						
306						
307						
308						
309						
310						
311						
312						
313						
314						
315						
316						
317						
318						
319						
320						
Date	E.C.O. No.	Line	Description of Change			APP.
9-17-75	60-5771		SUPERSEDING BULLETIN NO. 410B			FCS