

**APPENDIX A28**

**MODEL SUMMARY FOR REGRESSION OF BURST PRESSURE ON SEALING , PACKAGE, AND BURST TEST PARAMETERS BY  
PACKAGE GROUP**

**Table A28-1. Parameter coefficients and model fit statistics for regression of burst pressure on sealing, package, and burst test parameters by package group**

Package Group	Model	Model ID	Dependent Variable	Intercept	Seal Temp	Seal Pressure	Dwell Time	Gap	Tray Height	Tray Volume	Len Width	Tray Area	R Square	Adjusted R Square	Prediction R Square	Mallow's Cp	Akaike's AIC	Model Selected
PS1 PS2 PS4 PS7	BM3	BM3-1	BurstPressure	.	0.02	0.00	0.13	-1.96	-1.22	0.09	.	-0.04	0.95	0.94	0.94	7	-108.03	TRUE
PS1 PS2 PS4 PS7	BM3	BM3-2	BurstPressure	.	0.02	0.00	0.13	-1.96	-1.22	0.09	.	-0.04	0.95	0.94	0.94	7	-108.03	
PS1 PS2 PS4 PS7	BM3	BM3-3	BurstPressure	.	0.02	0.00	0.13	-1.97	-1.17	0.10	0.13	-0.04	0.95	0.94	0.94	8	-106.06	
PS1 PS2 PS4 PS7	BM3	BM3-4	BurstPressure	-4.79	0.02	0.00	0.13	-1.97	.	0.21	2.99	-0.08	0.84	0.82	0.79	8	-106.06	
PS1 PS2 PS4 PS7	BM3	BM3-5	BurstPressure	-4.79	0.02	0.00	0.13	-1.97	0.00	0.21	2.99	-0.08	0.84	0.82	0.79	8	-106.06	
PS3 PS6	BM3	BM3-1	BurstPressure	.	0.01	0.01	0.14	-1.20	.	-0.02	.	-0.04	0.97	0.97	0.97	6	-133.87	TRUE
PS3 PS6	BM3	BM3-2	BurstPressure	.	0.01	0.01	0.14	-1.20	0.00	-0.02	.	-0.04	0.97	0.97	0.97	6	-133.87	
PS3 PS6	BM3	BM3-3	BurstPressure	.	0.01	0.01	0.14	-1.20	.	-0.02	.	-0.04	0.97	0.97	0.97	6	-133.87	
PS3 PS6	BM3	BM3-4	BurstPressure	.	0.01	0.01	0.14	-1.20	0.00	-0.02	.	-0.04	0.97	0.97	0.97	6	-133.87	
PS3 PS6	BM3	BM3-5	BurstPressure	.	0.01	0.01	0.14	-1.20	.	-0.02	.	-0.04	0.97	0.97	0.97	6	-133.87	

**Table A28-2. ANOVA statistics for regression of burst pressure on sealing, package, and burst test parameters by package group**

Package Group	Model	Model ID	RMSE	PRESS	PRESS - SSE	Adj RSq - RSq	Cp - P	N	Model DF	Error DF	Total DF	MSE	SSE	SSR	SST	F Value for the model	Prob>F for the model	t Value for Intercept	Prob>t for Intercept	Model Selected
PS1 PS2 PS4 PS7	BM3	BM3-1	0.45	16.30	3.08	0.01	0	72	8	65	72	0.20	13.22	246.33	259.54	149.11	0.00	.	.	TRUE
PS1 PS2 PS4 PS7	BM3	BM3-2	0.45	16.30	3.08	0.01	0	72	8	65	72	0.20	13.22	246.33	259.54	149.11	0.00	.	.	
PS1 PS2 PS4 PS7	BM3	BM3-3	0.45	16.82	3.61	0.01	0	72	8	64	72	0.21	13.22	246.33	259.54	149.11	0.00	.	.	
PS1 PS2 PS4 PS7	BM3	BM3-4	0.45	16.82	3.61	0.02	0	72	7	64	71	0.21	13.22	68.24	81.46	47.21	0.00	-3.00	0.00	
PS1 PS2 PS4 PS7	BM3	BM3-5	0.45	16.82	3.61	0.02	0	72	7	64	71	0.21	13.22	68.24	81.46	47.21	0.00	-3.00	0.00	
PS3 PS6	BM3	BM3-1	0.27	4.52	0.89	0.00	0	54	6	48	54	0.08	3.62	140.34	143.96	309.78	0.00	.	.	TRUE
PS3 PS6	BM3	BM3-2	0.27	4.52	0.89	0.00	0	54	6	48	54	0.08	3.62	140.34	143.96	309.78	0.00	.	.	
PS3 PS6	BM3	BM3-3	0.27	4.52	0.89	0.00	0	54	6	48	54	0.08	3.62	140.34	143.96	309.78	0.00	.	.	
PS3 PS6	BM3	BM3-4	0.27	4.52	0.89	0.00	0	54	6	48	54	0.08	3.62	140.34	143.96	309.78	0.00	.	.	
PS3 PS6	BM3	BM3-5	0.27	4.52	0.89	0.00	0	54	6	48	54	0.08	3.62	140.34	143.96	309.78	0.00	.	.	

**Table A28-3. ANOVA statistics for regression of burst pressure on sealing, package, and burst test parameters by package group**

Package Group	Model	Model ID	t Value for Seal Temp	Prob>t for Seal Temp	t Value for Seal Pressure	Prob>t for Seal Pressure	t Value for Dwell Time	Prob>t for Dwell Time	t Value for Gap	Prob>t for Gap	t Value for Tray Volume	Prob>t for Tray Volume	t Value for Len Width	Prob>t for Len Width	t Value for Tray Area	Prob>t for Tray Area	t Value for Tray Height	Prob>t for Tray Height	Model Selected
PS1 PS2 PS4 PS7	BM3	BM3-1	3.07	0.00	0.07	0.94	3.35	0.00	-7.50	0.00	2.56	0.01	0.15	0.88	-3.08	0.00	-3.00	0.00	TRUE
PS1 PS2 PS4 PS7	BM3	BM3-2	3.07	0.00	0.07	0.94	3.35	0.00	-7.50	0.00	2.56	0.01	0.15	0.88	-3.08	0.00	-3.00	0.00	
PS1 PS2 PS4 PS7	BM3	BM3-3	3.07	0.00	0.07	0.94	3.35	0.00	-7.50	0.00	2.56	0.01	0.15	0.88	-3.08	0.00	-3.00	0.00	
PS1 PS2 PS4 PS7	BM3	BM3-4	3.07	0.00	0.07	0.94	3.35	0.00	-7.50	0.00	7.51	0.00	6.21	0.00	-9.34	0.00	.	.	
PS1 PS2 PS4 PS7	BM3	BM3-5	3.07	0.00	0.07	0.94	3.35	0.00	-7.50	0.00	7.51	0.00	6.21	0.00	-9.34	0.00	.	.	
PS3 PS6	BM3	BM3-1	7.96	0.00	1.35	0.18	5.29	0.00	-6.53	0.00	-0.41	0.68	-1.39	0.17	.	.	.	.	TRUE
PS3 PS6	BM3	BM3-2	7.96	0.00	1.35	0.18	5.29	0.00	-6.53	0.00	-0.41	0.68	-1.39	0.17	.	.	.	.	
PS3 PS6	BM3	BM3-3	7.96	0.00	1.35	0.18	5.29	0.00	-6.53	0.00	-0.41	0.68	-1.39	0.17	.	.	.	.	
PS3 PS6	BM3	BM3-4	7.96	0.00	1.35	0.18	5.29	0.00	-6.53	0.00	-0.41	0.68	-1.39	0.17	.	.	.	.	
PS3 PS6	BM3	BM3-5	7.96	0.00	1.35	0.18	5.29	0.00	-6.53	0.00	-0.41	0.68	-1.39	0.17	.	.	.	.	