

Yarmouth Research and Technology, LLC

API 6FB FIRE TEST REPORT

Customer: Flexitallic Limited **Date:** 8/13/2010

Product Code: 6 inch Class 300 Flange Rescue Gasket
 Fire Safe with Thermiculite 845 Facing

Project Number: PN210121

Specification: API 6FB, Third Edition, Nov. 1998
 Non-Bending, On-shore or Open-offshore Test

Seal Area OD: 8.40 **Seal Area ID:** 7.00 inches

Mean Seal Diameter: 7.70 inches ID of fire seal

Mean Circumference: 24.2 inches

Allowable Leakage: 24.2 ml/min

Nominal Test Pressure: 555 psig

YRT Technician: Matthew J. Wasielewski, P.E.

Version of YRT's FIRE-Control 6FB Software: A

Equipment Confirmed to be in Calibration to NIST Standards: Yes

Burn and Cool Down Test

Burn Start Time:	11:54:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	551	psig
Leak Rate During Burn/Cool Down:	11.1	ml/min
Allowable External Leak Rate:	24.2	ml/min
Amount of Time of Avg. Cal. Block > 1200 deg.:	18.5	minutes
Were Test Conditions Within Compliance?	Yes	
Was the Leakage Below the Allowable?	Yes	

Depressurization - Repressurization Test

Average Pressure During Test:	547	psig
Gasket Leak Rate:	17.6	ml/min
Allowable External Leak Rate:	24.2	ml/min
Was the Leakage Below the Allowable?	Yes	

Does the Gasket Pass or Fail API 6FB?	PASS
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Witnesses

Matthew J. Wasielewski

Note:



Temperature verses Time Chart

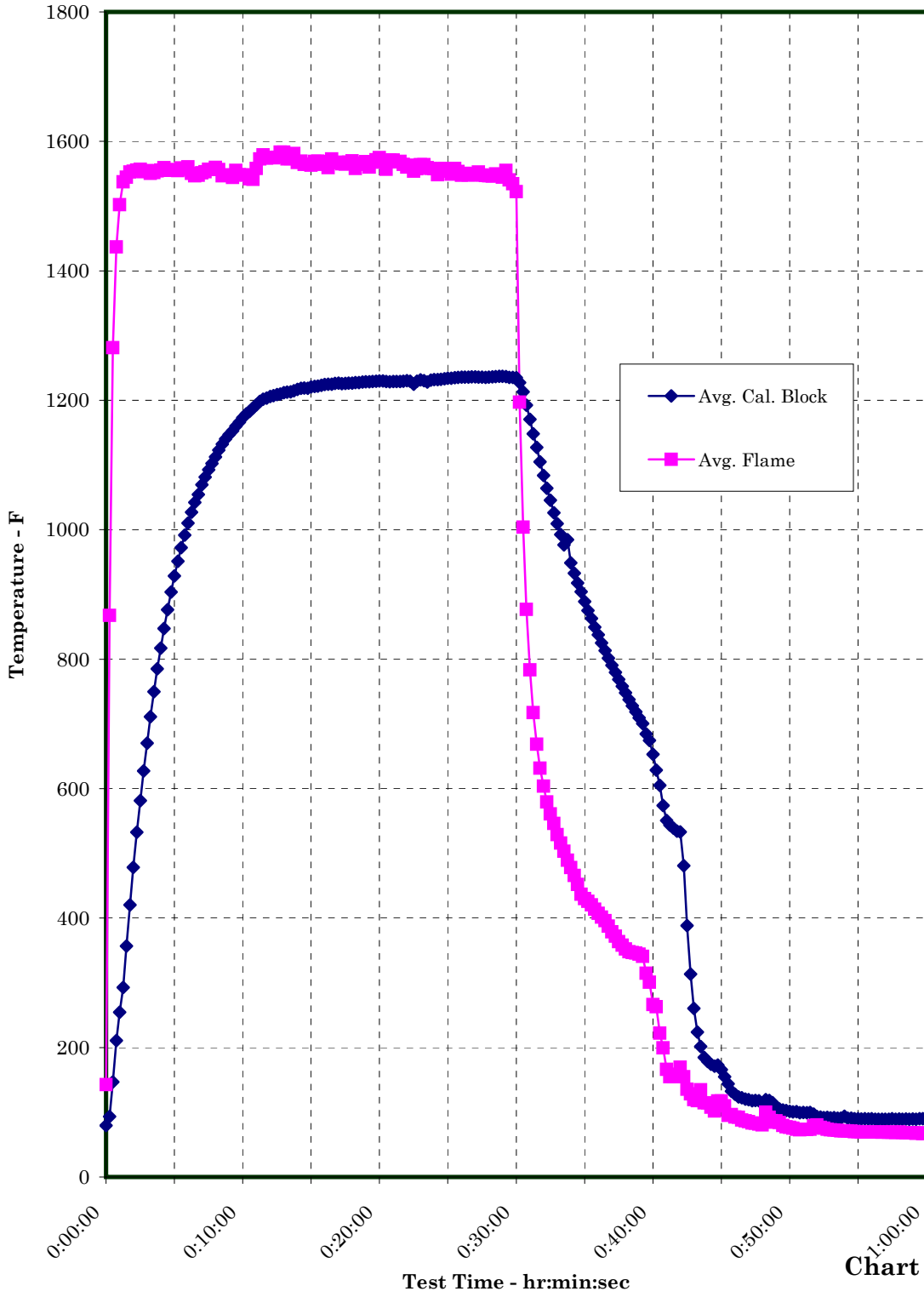


Chart 1

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Pressure versus Time Chart

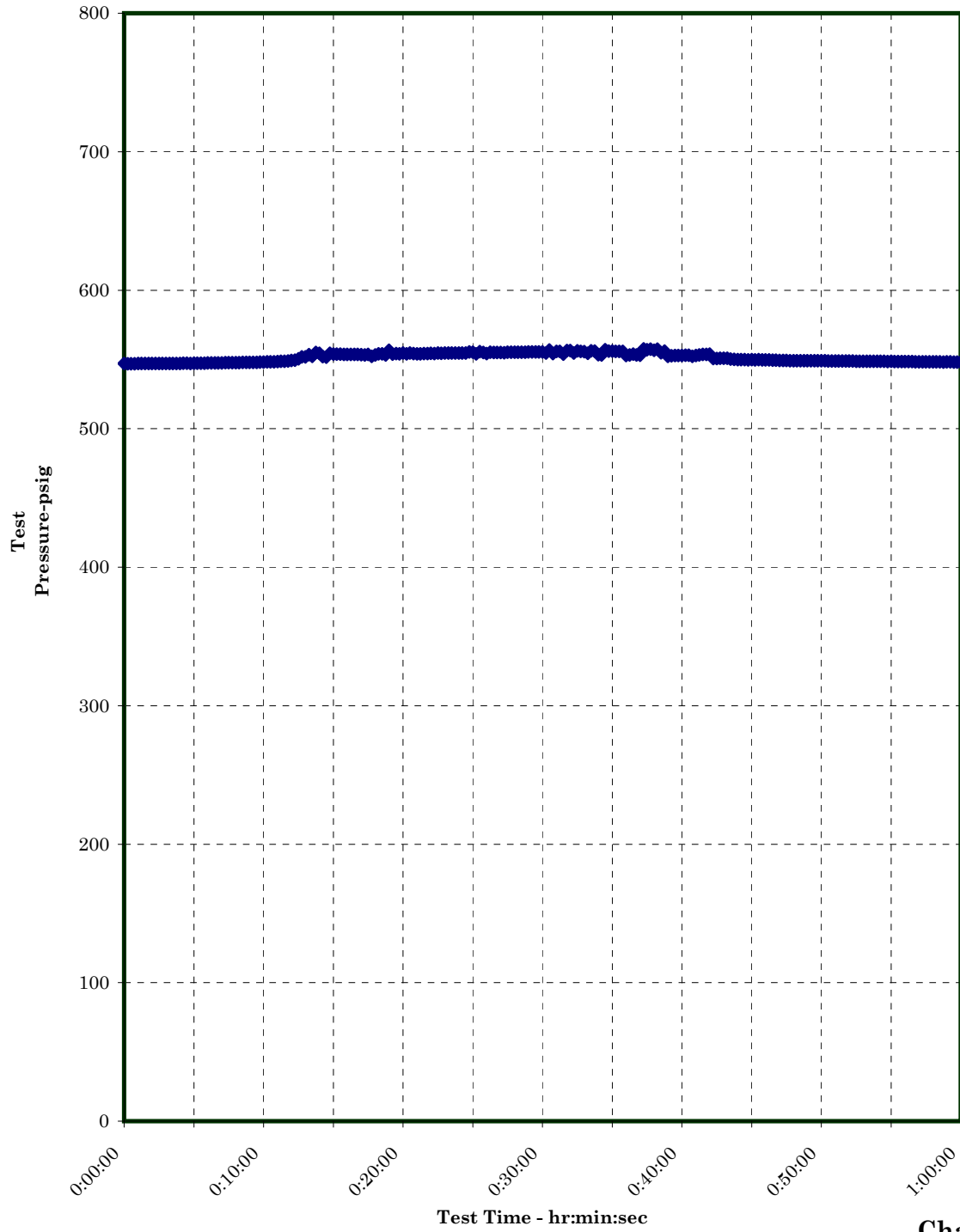
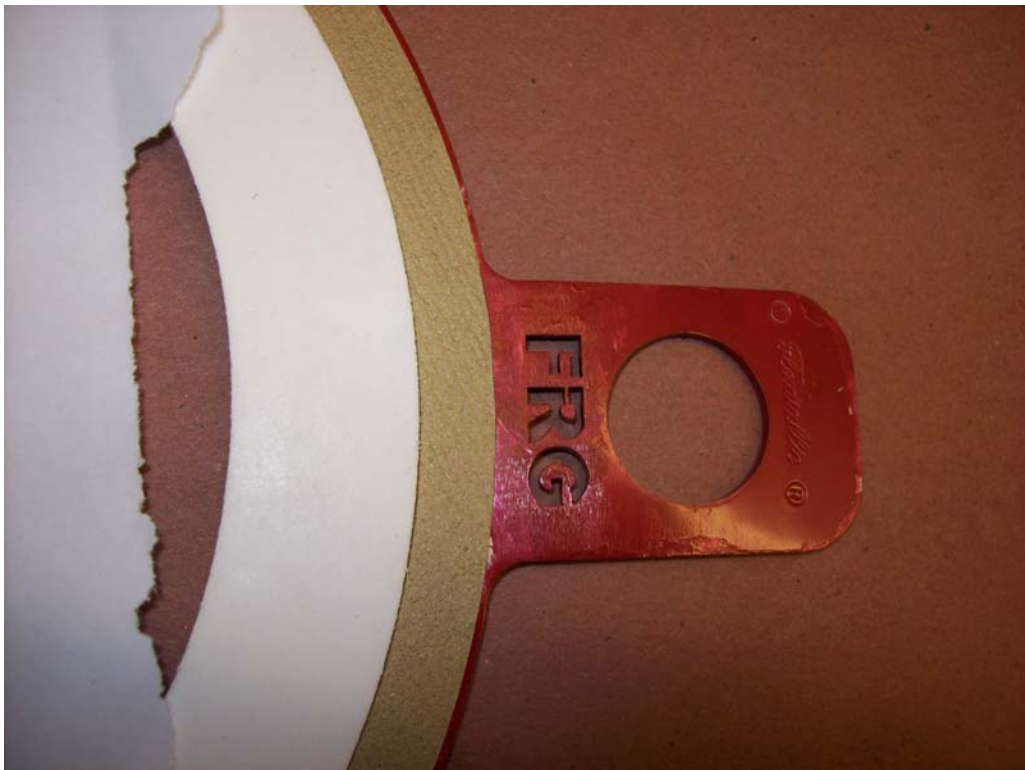
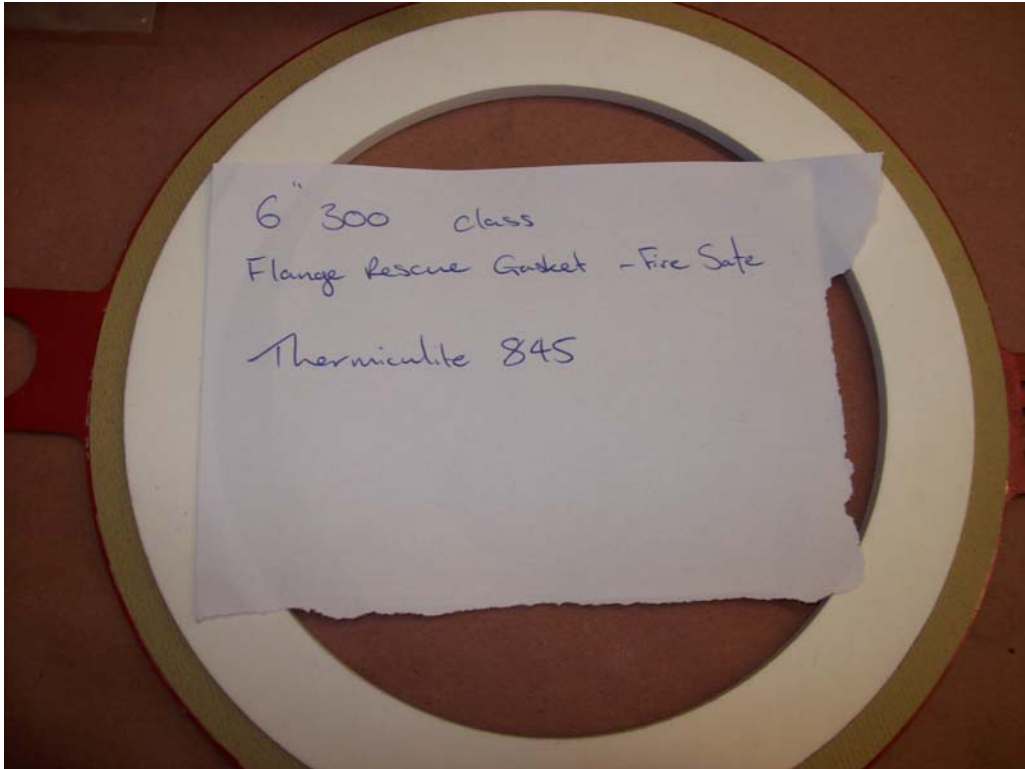


Chart 2

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Gasket Before Test

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Gasket Fire Test

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Gasket After Test

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Fire Test Information

Customer: Flexitallic Limited

Date: 8/13/2010

Product Code: 6 inch Class 300 Flange Rescue Gasket

Project Number: PN210121

Fire Test Raw Data

Time	Pressure (psig)	Water Volume (mls)	Cal. 1 Block Temp - F	Cal. 2 Block Temp - F	Cal. 3 Block Temp - F	Cal. 4 Block Temp - F	Average Block Temp - F	Flame 1 Temp - F	Flame 2 Temp - F	Flame 3 Temp - F	Flame 4 Temp - F	Average Flame Temp - F
11:54:00	547	13517	80	82	79	77	80	117	198	123	132	143
11:54:15	547	13502	87	114	86	87	94	845	838	674	1114	868
11:54:30	547	13502	133	191	128	136	147	1294	1210	1130	1491	1281
11:54:45	547	13511	205	229	200	210	211	1468	1385	1329	1566	1437
11:55:00	547	13485	233	315	254	215	254	1548	1453	1417	1590	1502
11:55:15	547	13523	251	403	274	244	293	1609	1469	1478	1593	1537
11:55:30	547	13508	311	488	336	292	357	1619	1471	1511	1577	1545
11:55:45	547	13504	384	561	396	340	420	1631	1474	1529	1577	1553
11:56:00	547	13513	457	620	450	387	478	1639	1470	1529	1577	1554
11:56:15	547	13498	525	672	500	434	533	1639	1470	1537	1577	1556
11:56:30	547	13517	585	715	547	478	581	1635	1468	1536	1589	1557
11:56:45	547	13516	642	754	591	521	627	1639	1465	1533	1575	1553
11:57:00	547	13510	693	792	633	563	670	1639	1463	1532	1584	1555
11:57:15	547	13512	743	827	670	604	711	1636	1460	1529	1577	1551
11:57:30	547	13529	790	860	707	642	750	1639	1455	1524	1589	1552
11:57:45	547	13540	832	890	742	677	785	1639	1456	1534	1588	1554
11:58:00	547	13545	869	917	775	708	817	1637	1452	1538	1596	1556
11:58:15	547	13537	903	942	805	739	847	1643	1456	1534	1605	1560
11:58:30	547	13536	937	966	835	767	876	1630	1457	1526	1607	1555
11:58:45	547	13557	969	990	864	792	904	1628	1459	1535	1604	1557
11:59:00	547	13558	998	1011	889	817	929	1611	1460	1536	1615	1556
11:59:15	547	13551	1023	1030	913	838	951	1615	1459	1529	1616	1555
11:59:30	547	13554	1046	1049	935	860	972	1610	1459	1545	1621	1559
11:59:45	547	13563	1068	1065	956	879	992	1618	1458	1539	1613	1557
12:00:00	547	13577	1090	1078	975	898	1010	1625	1456	1535	1627	1561
12:00:15	547	13584	1109	1090	994	915	1027	1618	1453	1527	1604	1551
12:00:30	547	13584	1125	1102	1009	933	1042	1618	1451	1517	1601	1547

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12:00:45	548	13578	1142	1105	1022	948	1054	1614	1450	1522	1605	1548
12:01:00	548	13593	1157	1125	1036	961	1070	1616	1448	1528	1614	1552
12:01:15	548	13590	1169	1133	1048	976	1081	1630	1447	1535	1600	1553
12:01:30	548	13595	1180	1143	1058	990	1093	1638	1446	1538	1606	1557
12:01:45	548	13606	1189	1151	1066	1004	1103	1639	1445	1537	1607	1557
12:02:00	548	13604	1198	1160	1075	1017	1113	1646	1449	1527	1617	1560
12:02:15	548	13624	1209	1171	1086	1027	1123	1611	1453	1538	1624	1557
12:02:30	548	13618	1220	1179	1096	1034	1132	1605	1450	1538	1594	1547
12:02:45	548	13625	1230	1186	1103	1042	1140	1606	1447	1528	1611	1548
12:03:00	548	13641	1238	1189	1110	1051	1147	1610	1448	1518	1616	1548
12:03:15	548	13637	1244	1194	1116	1059	1153	1605	1449	1511	1611	1544
12:03:30	548	13636	1251	1201	1124	1066	1160	1618	1449	1529	1625	1555
12:03:45	548	13650	1258	1204	1128	1075	1166	1602	1448	1525	1618	1548
12:04:00	548	13669	1266	1211	1135	1080	1173	1600	1448	1522	1622	1548
12:04:15	548	13659	1274	1214	1142	1085	1179	1607	1448	1520	1617	1548
12:04:30	548	13677	1278	1218	1143	1092	1183	1580	1449	1517	1622	1542
12:04:45	548	13699	1285	1225	1148	1096	1188	1597	1443	1513	1612	1541
12:05:00	548	13692	1289	1229	1151	1102	1193	1632	1445	1533	1622	1558
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12:05:30	549	13732	1293	1234	1162	1118	1201	1663	1462	1563	1628	1579
12:05:45	549	13705	1286	1237	1166	1124	1203	1666	1465	1560	1605	1574
12:06:00	549	13814	1278	1242	1171	1132	1206	1664	1466	1556	1614	1575
12:06:15	550	13806	1269	1244	1174	1140	1207	1665	1469	1550	1614	1575
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12:07:15	554	15474	1251	1250	1191	1158	1213	1656	1468	1541	1626	1573
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12:09:15	554	14635	1223	1258	1211	1194	1222	1655	1469	1536	1616	1569
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12:09:45	554	14625	1220	1259	1214	1199	1223	1662	1466	1523	1606	1564
12:10:00	554	14619	1220	1259	1217	1202	1224	1670	1468	1519	1617	1569

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12:10:15	554	14644	1218	1259	1219	1204	1225	1668	1469	1504	1596	1559
12:10:30	554	14629	1217	1257	1219	1207	1225	1670	1469	1522	1630	1573
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12:14:45	554	14640	1213	1260	1206	1234	1229	1664	1464	1511	1646	1571
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12:15:15	554	14657	1216	1262	1204	1235	1229	1659	1464	1505	1644	1568
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12:15:45	554	14595	1218	1264	1201	1235	1229	1661	1463	1491	1643	1565
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12:16:15	554	14579	1223	1264	1198	1232	1229	1657	1462	1484	1649	1563
12:16:30	555	14613	1223	1245	1198	1233	1225	1653	1462	1440	1660	1554
12:16:45	554	14801	1225	1260	1198	1233	1229	1643	1461	1473	1653	1558
12:17:00	555	14657	1228	1270	1196	1233	1232	1639	1462	1502	1653	1564
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12:19:30	556	14573	1240	1272	1183	1245	1235	1634	1458	1475	1666	1558

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12:19:45	555	14689	1242	1273	1181	1245	1235	1640	1458	1468	1648	1554
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12:20:15	555	14708	1244	1275	1176	1247	1236	1640	1458	1445	1659	1551
12:20:30	555	14695	1245	1274	1175	1248	1236	1626	1458	1436	1672	1548
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12:23:15	555	14682	1257	1283	1157	1248	1236	1609	1455	1473	1684	1555
12:23:30	555	14681	1258	1282	1153	1248	1236	1623	1450	1436	1652	1540
12:23:45	556	14701	1258	1282	1150	1250	1235	1628	1449	1406	1655	1535
12:24:00	556	14679	1258	1281	1147	1253	1235	1640	1447	1375	1627	1522
12:24:15	555	15300	1255	1270	1130	1254	1227	1270	1400	1094	1025	1197
12:24:30	557	12225	1244	1247	1121	1241	1213	1045	1304	898	769	1004
12:24:45	554	13775	1225	1217	1109	1219	1192	907	1182	777	641	877
12:25:00	556	14699	1205	1189	1093	1196	1171	806	1081	690	557	784
12:25:15	556	14665	1185	1162	1073	1173	1148	736	1005	626	503	718
12:25:30	554	14771	1163	1136	1060	1150	1127	684	946	576	468	669
12:25:45	556	12260	1144	1111	1036	1128	1105	645	901	536	444	632
12:26:00	556	12543	1123	1090	1017	1105	1084	614	865	507	429	604
12:26:15	555	15364	1104	1070	998	1084	1064	583	844	483	408	580
12:26:30	556	14778	1086	1052	980	1064	1045	562	826	464	392	561
12:26:45	556	14661	1067	1034	961	1043	1026	552	803	446	384	546
12:27:00	556	2561	1049	1017	948	1024	1009	534	777	429	376	529
12:27:15	555	15116	1032	1001	934	1005	993	521	757	414	371	516
12:27:30	556	14822	1015	984	919	987	976	499	742	405	367	503
12:27:45	556	12916	999	1050	921	969	985	475	726	397	360	490
12:28:00	553	14642	983	952	907	953	949	449	714	393	356	478
12:28:15	553	13864	968	933	895	936	933	429	691	390	353	466
12:28:30	557	13545	954	913	883	920	918	412	661	388	347	452
12:28:45	556	14608	941	898	872	906	904	398	631	380	338	437
12:29:00	556	14600	925	881	860	890	889	395	614	375	336	430

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12:29:15	556	14609	913	865	849	875	875	399	597	372	335	426
12:29:30	556	14591	901	850	838	862	863	394	584	369	334	420
12:29:45	556	14594	889	834	827	849	850	390	569	366	330	414
12:30:00	553	12530	876	820	818	837	838	388	554	360	328	408
12:30:15	553	13711	865	806	806	823	825	384	540	354	327	401
12:30:30	554	14212	853	792	797	812	813	385	528	349	321	396
12:30:45	553	13998	842	779	787	800	802	371	517	343	319	388
12:31:00	553	12859	831	767	776	788	790	360	505	337	313	379
12:31:15	558	15264	821	753	767	778	780	351	496	332	308	372
12:31:30	557	15630	810	742	758	766	769	342	485	325	302	364
12:31:45	557	13587	800	728	749	756	758	334	478	321	299	358
12:32:00	557	15663	790	716	739	746	748	327	469	317	295	352
12:32:15	557	15616	780	705	730	735	738	322	463	315	292	348
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12:32:45	556	14552	761	682	714	717	719	323	456	312	293	346
12:33:00	552	13944	752	673	706	707	710	322	450	312	293	344
12:33:15	553	14006	744	662	698	699	701	320	444	309	290	341
12:33:30	553	14094	735	624	690	689	685	259	410	304	286	315
12:33:45	553	14073	726	615	683	673	674	216	415	296	277	301
12:34:00	553	14001	718	606	675	613	653	116	389	290	271	267
12:34:15	553	13991	708	597	667	542	629	128	377	284	263	263
12:34:30	553	14008	701	590	660	469	605	122	386	193	187	222
12:34:45	552	13956	682	535	647	432	574	119	370	170	139	200
12:35:00	553	13979	647	496	630	430	551	112	301	142	109	166
12:35:15	553	14000	624	497	619	435	544	106	279	132	103	155
12:35:30	554	14016	608	498	611	439	539	113	276	129	102	155
12:35:45	554	14034	598	492	605	442	534	125	278	127	105	159
12:36:00	554	14092	591	499	600	443	533	136	283	126	133	170
12:36:15	551	13612	528	413	542	442	481	145	157	152	165	155
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12:36:45	551	13586	322	276	344	312	314	98	149	135	131	128
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12:37:15	551	13566	248	205	258	185	224	93	124	134	121	118
12:37:30	550	13495	230	183	237	156	201	174	118	121	126	135
12:37:45	550	13428	220	151	225	142	185	125	104	117	111	114
12:38:00	550	13419	213	148	220	133	179	111	99	137	111	115
12:38:15	550	13361	210	140	217	129	174	97	98	129	107	108
12:38:30	550	13370	208	136	216	125	171	93	94	117	103	102

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12:38:45	550	13352	208	147	215	122	173	92	107	126	145	118
12:39:00	550	13329	193	144	209	118	166	105	107	146	111	117
12:39:15	550	13320	167	135	199	118	155	87	96	151	105	110
12:39:30	550	13309	143	128	186	118	144	89	89	113	90	95
12:39:45	550	13305	124	120	170	116	133	88	86	96	116	97
12:40:00	550	13270	114	118	163	116	128	83	89	91	108	93
12:40:15	550	13270	108	116	156	115	124	83	93	90	103	92
12:40:30	550	13267	106	115	154	115	122	79	86	86	101	88
12:40:45	549	13244	103	113	151	114	120	79	86	83	99	87
12:41:00	549	13229	102	114	148	114	120	79	82	83	97	85
12:41:15	549	13167	101	110	147	113	118	77	82	81	94	84
12:41:30	549	13169	102	110	147	113	118	75	81	81	95	83
12:41:45	549	13148	102	109	147	113	118	75	80	79	93	82
12:42:00	549	13119	102	97	146	112	114	75	79	77	91	81
12:42:15	549	13140	102	115	147	113	119	87	87	102	125	100
12:42:30	549	13123	103	114	144	112	118	78	78	99	113	92
12:42:45	549	13116	101	110	139	108	115	69	76	111	83	85
12:43:00	549	13118	96	95	133	107	108	81	79	87	99	87
12:43:15	549	13112	92	99	128	101	105	75	75	87	100	84
12:43:30	549	13110	92	98	127	98	104	73	73	81	91	80
12:43:45	549	13101	91	97	125	97	103	73	72	77	87	77
12:44:00	549	13094	91	95	123	96	101	73	73	76	85	77
12:44:15	549	13077	90	94	122	96	101	71	72	74	85	76
12:44:30	549	13069	91	95	121	96	101	69	72	72	82	74
12:44:45	549	13065	90	93	120	95	99	69	71	71	80	73
12:45:00	549	13052	91	94	118	95	100	69	71	73	82	74
12:45:15	549	13045	91	93	117	95	99	68	71	72	82	73
12:45:30	549	13043	91	98	115	95	100	67	69	74	84	74
12:45:45	549	13039	90	97	110	92	97	83	66	77	90	79
12:46:00	549	13023	88	92	102	92	94	84	66	77	95	81
12:46:15	549	13026	88	90	101	92	93	79	66	74	88	77
12:46:30	549	13021	88	87	100	92	92	75	67	74	85	75
12:46:45	549	13006	87	89	100	93	92	73	67	72	83	74
12:47:00	549	12998	87	87	99	92	91	72	67	71	82	73
12:47:15	549	12992	88	87	99	92	92	71	67	70	81	72
12:47:30	549	12985	87	87	98	92	91	70	67	70	80	72
12:47:45	549	12987	88	86	98	91	91	69	67	69	80	71
12:48:00	549	12983	87	87	110	91	94	69	67	70	79	71

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12:48:15	549	12959	88	87	98	91	91	67	67	70	80	71
12:48:30	549	12972	88	87	97	91	91	67	67	71	78	71
12:48:45	549	12915	88	86	95	91	90	67	66	69	77	70
12:49:00	549	12976	88	86	95	90	90	67	67	68	77	70
12:49:15	549	12964	88	86	94	90	90	67	66	68	77	70
12:49:30	549	12964	89	86	94	90	90	67	66	67	77	69
12:49:45	548	12944	89	86	94	89	90	67	66	67	77	69
12:50:00	549	12940	89	86	94	90	90	67	66	67	77	69
12:50:15	548	12923	88	86	93	89	89	66	67	68	77	70
12:50:30	548	12923	89	86	93	89	89	67	66	68	77	70
12:50:45	548	12912	89	85	93	89	89	66	66	68	76	69
12:51:00	548	12905	89	86	93	89	89	66	66	69	76	69
12:51:15	548	12900	89	85	93	89	89	66	66	69	75	69
12:51:30	548	12893	90	86	93	90	90	66	66	68	76	69
12:51:45	548	12890	90	85	93	89	89	66	66	67	76	69
12:52:00	548	12898	90	86	93	89	90	66	67	68	76	69
12:52:15	548	12874	90	85	93	89	89	65	67	67	75	69
12:52:30	548	12882	90	86	93	89	90	65	67	67	74	68
12:52:45	548	12875	90	85	93	89	89	65	66	67	74	68
12:53:00	548	12863	90	86	93	89	90	65	66	67	74	68
12:53:15	548	12863	90	85	93	89	89	65	66	65	73	67
12:53:30	548	12841	91	85	93	90	90	66	66	65	75	68
12:53:45	548	12856	91	85	93	90	90	65	65	64	73	67
12:54:00	548	12853	91	86	94	89	90	65	66	65	73	67

Yarmouth Research and Technology, LLC

Leakage Summary for Burn and Cool Down Periods

All pressure transducers and thermocouples are in calibration per YRT's QA program.

External leakage was collected electronically.

Test Duration:	60	minutes
Tank Water Loss:	664	
System Relief Water Collected:	0	mls
Calculated Water Loss:	664	
Average Leak Rate:	11.1	ml/min
Average Seal Circumference	24.2	inches
Allowable Leak Rate:	24.2	ml/min

Was the Leakage Below the Allowable?	Yes
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Summary of Test Parameters During Burn and Cool Down Periods

Amount of Time of Average Cal. Block > 1200 deg.:	18.5	minutes
Minimum Allowable Time at Temperature:	15	minutes
Average Cal. Block Temperature During Burn:	1080	deg. F
Maximum Average Cal. Block Temperature During Burn:	1237	deg. F
Minimum Average Cal. Block Temperature During Burn:	80	deg. F
Average Flame Temperature During Burn:	1537	deg. F
Maximum Average Flame Temperature During Burn:	1584	deg. F
Minimum Average Flame Temperature During Burn:	143	deg. F

Notes

Were Test Conditions Within Compliance?	Yes
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Yarmouth Research and Technology, LLC

Depressurization - Repressurization Test Information

Customer: Flexitallic Limited

Date: 8/13/2010

Product Code: 6 inch Class 300 Flange Rescue Gasket

Project Number: PN210121

System pressure was lowered to 0 and then repressurized.

Operational Test Raw Data

Time	Pressure (psig)	Average Block Temp-F
13:16:33	547	84
13:16:48	547	84
13:17:03	547	84
13:17:18	547	85
13:17:33	547	84
13:17:48	547	84
13:18:03	547	84
13:18:18	547	84
13:18:33	547	84
13:18:48	547	84
13:19:03	547	84
13:19:18	547	84
13:19:33	547	84
13:19:48	547	84
13:20:03	547	84
13:20:18	547	84
13:20:33	547	84
13:20:48	547	83
13:21:03	547	84
13:21:18	547	84
13:21:33	547	84

Leakage was collected manually.

Total External Leakage Collected Over 5 Minute Duration:	88	mls
Average Leak Rate Over 5 Minute Duration:	17.6	ml/min
Allowable Leak Rate:	24.2	ml/min

Was the Leakage Below the Allowable?	Yes
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