

PTCR



Kiln Process Control

Process Temperature Control Rings From SELEE Corporation (ISO 9000:2000 and ISO 14001 certified)

- *Reliable firing control*
- *Troubleshooting*
- *Yield improvement*
- *Reduced inspection time*
- *Cost reduction*
- *Quality assurance*



SELEE Corporation represents Ferro (Holland) BV for Process Temperature Control Rings (PTCR) in the United States. **PTCR** offers the finest available in in-process control.

The **PTCR** is a ceramic ring that shrinks when exposed to heat. The degree of shrinkage depends on the actual temperature in the kiln, the heat transfer properties of the kiln, and the time it is exposed to the heat treatment.

Total heat transferred to the ring is measured by means of conduction, convection, and radiation. **PTCR** takes into account different firing conditions that may occur in a kiln such as heat sinks, temperature gradients, gas flow, heat transfer coefficient, time, kiln setting, etc. The repeatability of the process and the quality of the product are assured because of total heat measurement.

For more information on the use and benefits of Process Temperature Control Rings, please contact SELEE Corporation.



PCTR

Sample Conversion Chart (Not for Technical Use)

Temperature Table for Process Temperature Control Rings (PCTR)

Type PCTR – STL Temperature Range			4322 020 04071 1130 – 1400 °C			Ring Color Dimensions			Green ± 20 X 10 x 3.5 mm		
Ring Dia	Ring Temp	Ring Dia	Ring Temp	Ring Dia	Ring Temp	Ring Dia	Ring Temp	Ring Dia	Ring Temp	Ring Dia	Ring Temp
				18.45	1393°	18.90	1345°	19.35	1264°	19.80	1156°
				18.46	1392°	18.91	1344°	19.36	1262°	19.81	1154°
				18.47	1392°	18.92	1342°	19.37	1259°	19.82	1151°
				18.48	1391°	18.93	1341°	19.38	1257°	19.83	1149°
				18.49	1390°	18.94	1339°	19.39	1255°	19.84	1147°
				18.50	1389°	18.95	1338°	19.40	1253°	19.85	1144°
				18.51	1388°	18.96	1336°	19.41	1251°	19.86	1142°
				18.52	1387°	18.97	1335°	19.42	1248°	19.87	1139°
				18.53	1387°	18.98	1333°	19.43	1246°	19.88	1137°
				18.54	1386°	18.99	1332°	19.44	1244°	19.89	1134°
				18.55	1385°	19.00	1330°	19.45	1241°	19.90	1132°
				18.56	1384°	19.01	1329°	19.46	1239°	19.91	1130°
				18.57	1383°	19.02	1327°	19.47	1237°		
				18.58	1382°	19.03	1325°	19.48	1234°		
				18.59	1381°	19.04	1324°	19.49	1232°		
				18.60	1380°	19.05	1322°	19.50	1230°		
				18.61	1379°	19.06	1320°	19.51	1227°		
				18.62	1378°	19.07	1319°	19.52	1225°		
				18.63	1377°	19.08	1317°	19.53	1223°		
				18.64	1376°	19.09	1315°	19.54	1220°		
				18.65	1375°	19.10	1313°	19.55	1218°		
				18.66	1374°	19.11	1312°	19.56	1215°		
				18.67	1373°	19.12	1310°	19.57	1213°		
				18.68	1372°	19.13	1308°	19.58	1211°		
				18.69	1371°	19.14	1306°	19.59	1208°		
				18.70	1370°	19.15	1304°	19.60	1206°		
				18.71	1369°	19.16	1303°	19.61	1203°		
				18.72	1368°	19.17	1301°	19.62	1201°		
				18.73	1367°	19.18	1299°	19.63	1198°		
				18.74	1366°	19.19	1297°	19.64	1196°		
				18.75	1364°	19.20	1295°	19.65	1193°		
				18.76	1363°	19.21	1293°	19.66	1191°		
				18.77	1362°	19.22	1291°	19.67	1188°		
				18.78	1361°	19.23	1289°	19.68	1186°		
				18.79	1360°	19.24	1287°	19.69	1184°		
				18.80	1359°	19.25	1285°	19.70	1181°		
				18.81	1357°	19.26	1283°	19.71	1179°		
		18.37	1400°	18.82	1356°	19.27	1281°	19.72	1176°		
		18.38	1399°	18.83	1355°	19.28	1279°	19.73	1174°		
		18.39	1398°	18.84	1353°	19.29	1277°	19.74	1171°		
		18.40	1397°	18.85	1352°	19.30	1275°	19.75	1169°		
		18.41	1396°	18.86	1351°	19.31	1272°	19.76	1166°		
		18.42	1396°	18.87	1349°	19.32	1270°	19.77	1164°		
		18.43	1395°	18.88	1348°	19.33	1268°	19.78	1161°		
		18.44	1394°	18.89	1347°	19.34	1266°	19.79	1159°		
Powder Batch # :			201			Date:			96-04-03		
PCTR-SPT Batch		A: -4575.1906		B: 65322.455		C: 30.077354		D: -823764.84			
Formula Data:		E: 3903009.3		F:		G:		H:			

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