

Teflon can't stand the heat...

Chemical Releases

1,202° CF₄ (carbon tetrafluoride): Global warming gas; affects heart, lungs, and nervous system [1].

1,112° CF₃COF (trifluoroacetic acid fluoride): degrades to HF & TFA
OFCB (octafluorocyclobutane): Linked to heart palpitations
PFB (perfluorobutane): Global warming gas [1].

932° COF₂ (carbonyl fluoride): fluorinated version of chemical warfare agent
HF (hydrogen fluoride): Corrosive gas. Kills tissue on contact [2].

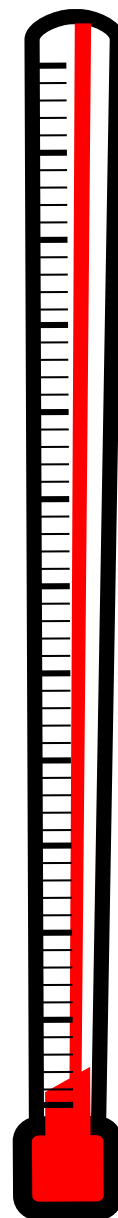
887° PFIB (perfluoroisobutene): Chemical warfare agent [3].

878° SiF₄ (silica tetrafluoride): highly toxic by inhalation and ingestion [1].

680° Toxic gasses released:
TFE (tetrafluoroethylene): animal carcinogen
HFP (hexafluoropropene): worker toxicant
TFA (trifluoroacetic acid): poisonous to plants
DFA (difluoroacetic acid): Animal kidney toxicant
MFA (monofluoroacetic acid): lethal to humans at low doses
PFOA (perfluorooctanoic acid): animal carcinogen [4].

554° Ultrafine particulates released (oxidized Teflon particles) [5].

464° Lowest temperature at which Teflon particles have been measured [6].



Common cooking temperatures

1,500° Broiling temperature for high-end ovens [7].

1,000° Drip pans in stovetop burner
Gas flame on range top [8].

800° Electric coil on range top [8].

750° Surface temperature of PTFE-coated pan after heating for 8 minutes on conventional stove [9].

700° Preheated grill [10].

536° Birds killed in DuPont lab experiments [5].

500° Searing temperature for meat in oven or grill
Maximum temperature for many ovens

396° Temperature of PTFE-coated light bulbs under which Missouri birds died [11].

350° Common baking temperature

325° Birds died from preheated oven [12].

All temperatures are in degrees Fahrenheit.

References

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Fahrenheit (F) to Celsius (C) conversion:

1,500 F (816 C)	700 F (371 C)
1,202 F (650 C)	680 F (360 C)
1,112 F (600 C)	662 F (350 C)
1,000 F (538 C)	536 F (280 C)
932 F (500 C)	500 F (260 C)
887 F (475 C)	464 F (240 C)
878 F (470 C)	396 F (202 C)
800 F (427 C)	350 F (177 C)
750 F (399 C)	325 F (162 C)