

# Teflon can't stand the heat...

## Chemical Releases

1,202 ° CF<sub>4</sub> (carbon tetrafluoride): Global warming gas; affects heart, lungs, and nervous system [1].

1,112 ° CF<sub>3</sub>COF (trifluoroacetic acid fluoride): degrades to HF & TFA  
OFCB (octafluorocyclobutane): Linked to heart palpitations  
PFB (perfluorobutane): Global warming gas [1].

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

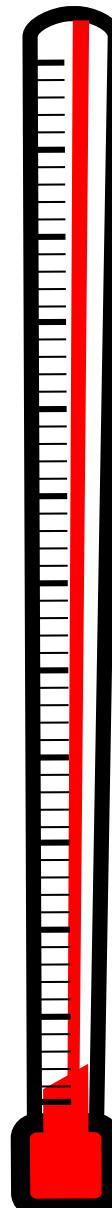
887 ° PFIB (perfluoroisobutene): Chemical warfare agent [3].

878 ° SiF<sub>4</sub> (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)