

# Insurors Service Bureau

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## PROPERTIES OF INTEREST TO A FIRE INVESTIGATOR

### TEMPERATURES

Electric arc	1980+ F
Match flame	2000 F
Cigarette	550 to 1350 F
Light bulb	212 F
Halogen headlight	240 to 400 F ( 55W bulb)
Exhaust manifold	650 to 2000 F

### MELTING POINTS

Copper	1980 F
Aluminum	1200 F
Aluminum alloy	1000 F
Brass	1650 F
Iron	2800 F
Lead	550 F
Zinc	800 F
Chromium	2800 F
Tungsten	6400 F
Nylon 12	350 F for 5 min. 365 F for 2 min. (Ford fuel lines)
Polyethylene	350F
Phenolic Plastic	700 F
ABS(battery case)	300 F

LIQUIDS	FLASH POINT	BOIL	IGNITION
Gasoline	-36 to -45 F	250 F	540 to 850 F
Perm Antifreeze 100%	232 F	387 F	775 F
Methenol	52 F		867 F
ATF	300 to 450	680 F	500 to 700 F
Diesel Fuel	100 F	304 to 574 F	444 F
Motor oil	300 to 450 F	680 F	500 to 700 F
Brake fluid	380 F	450 F - 536 F	500 to 700 F

### MISC OTHER

Freon 12	1026 F	
Freon 113	1256 F	
Wood	400 F	
Paper	400 F	
PVC (Seats @ carpet)	735 F	850 F
Polyethylene	645 F	660 F
Polyester	750 F	905 F
Foam natural rubber	210 F	N/A