

Subject Index**A**

Adiabatic compression, 27, 300, 349
 Aircraft flight system, 360
 Air separation, 276
 Alloys, 3, 112, 119, 146, 183
 aluminum, 276
 bronze, 156
 carbon steel, 97
 combustion, gravity, 133
 titanium, 169
 Aluminum, 133, 183, 211, 223, 255
 flammability data, 300
 packings, 276
 Argon, 74
 ASTM standards
 D 2512: 81
 D 2863: 43
 G 63: 223
 G 74: 27, 81
 G 88: 27, 360
 G 94: 146
 Autoclaves, 169

B

Bronze alloys, 156
 Bronze, tin, 119
 Buna N, 239

C

Carbon steel, 97
 Chipping, oil, 291
 Chromium, 133
 Cleanliness, 349, 373
 Combustion, 349, 360
 hydrocarbon oil effects on, 81
 liquid phase metal, 183
 metals, 133, 183, 196, 211
 microgravity, 133, 196
 nonmetals, 74

polymer, 27, 81, 146, 223, 239
 promoted, 3, 112, 119, 183, 300, 389
 promoted ignition-combustion, 97
 propagation, 276
 tubes, tracheal, 43, 57
 Computer modeling, 196
 Convection, 196
 Copper, 133, 183, 211, 223
 Cryogenic
 air separation, 291
 distillation columns, 255

D

Design, component and system, 3, 74, 349
 G 88: 27, 360
 Differential scanning calorimeter, 239
 Diluents, 74

E

Electrosurgery, 66
 Endotracheal tube fires, 43, 66

F

Filters, 119
 Flame spread, 43, 112
 Flammability, 3, 27, 360
 alloys, 112, 183
 aluminum, 276, 300
 autoclaves, 169
 D 2863: 43
 data, 300
 G 63: 223
 instrument system, 183
 metals, 183, 255
 nonmetals, 74
 Fourier transform infrared
 spectroscopy, 81
 tube furnace apparatus, 239

Frictional heating, 3, 112, 146,
156, 389

G

Gaseous impact, 27, 81
Gold, 169
Gravity, 133, 196

H

Halocarbon grease, 373
Hastelloy, 112
Haynes alloy C-230, 112
Hazards analysis, 360
Heat transfer mechanisms, 97,

196

Helium, 74

Hydrocarbon
contaminant, 81
oil, 373
promoters, 255

I

Ignitability, 3
Ignition, 3, 27, 119, 300, 389
autoignition, 81
by friction, 146, 156, 389
hazards, 349, 360
hazard simulation, 239
metal, 223
metals, bulk, 196, 211
model, metal, 183
promoted ignition-combustion,
97

PTFE tape, 81

spontaneous, 57
susceptibility, 112
temperature, 57, 81
testing, 169

Impact

gaseous liquid, ignition
G 74: 27, 81
particle, 3, 112, 300
sensitivity

D 2512: 81

Inconel, 112, 239

Intraluminal test, 43

Iron, 133, 211

K

Kel-F 81, 74

L

Lasers, 66
Limiting oxygen index, 43
Liquid phase metal combustion,
183
Lithium grease, 373

M

Magnesium, 133, 183, 211, 255
Material selection, 3, 74, 349
 sulfide pressure oxidation
 autoclaves, 169
Mechanical impact test, 81, 300
Metals and alloys, 3, 112, 119,
146, 373
 aluminum, 133, 183, 211, 223,
 255
 flammability data, 300
 packings, 276
 bronze, 119, 156
 cleaning, 373
 combustion, 133, 183, 196
 exposure, 300
 G 94: 146
 gold, 169
 ignition model, 183
 iron, 133, 211
 magnesium, 133, 183, 211, 255
 nickel, 133
 niobium, 169
 promoters, 255
 stainless steel, 119, 133, 223
 tin-bronze, 119
 titanium, 133, 169, 211
 tungsten, 133
 wear, 389
 zinc, 133, 211
 zirconium, 211
Microgravity, 43
Modeling, 196
Monel
 400 powder, 119
 K-500, 133

N	
Neon diluents, 74	
Nickel, 133	
Niobium, 169	
Nitrogen, 74	
Nonmetals, evaluation of G 63: 223	
O	
Oil contamination, 276	
Oil films, 291	
Orbiter Fuel Cell Servicing System, 112	
Oxygen purity, 97	
P	
Packing, structured, 276, 291	
Particle impact, 3, 112, 300	
Pin-on-disk tests, 389	
Plastics (See also specific types) D 2863: 43	
Pneumatic impact, 81	
Polyethylene, 223 high density, 239	
Polyimide, 223	
Polymers, 27, 146	
Polytetrafluoroethylene, 81, 223	
Polyvinyl chloride, 43	
Pressure, effect on ignition-combustion, 97, 196	
Pressure oxidation, 169	
Pressure-velocity product, 156	
Probes, 66	
Promoters, 223, 300 types, 97	
Pulse oximetry surgical fires surgery, 6	
Pump, liquid oxygen, 156	
Pyrolysis furnace, 81	
R	
Rubber red, 57 silicon, 57	
S	
Section size, 97	
T	
Teflon PTFE, 74	
Thermal conductivity, 74	
Thermal gravimetry, 239	
Thermite, 255	
Threshold pressure, 119	
Tin-bronze, 119	
Titanium, 133, 169, 211	
Tracheal tubes, 43, 57, 66	
Tubes, 66 endotracheal, 57 tracheal, 43, 66	
Tungsten, 133	
U	
Ultrasonics, 373	
V	
Viton, 74	
W	
Wear ring, 156	
X	
Xenon, 211	
Z	
Zinc, 133, 211	
Zirconium, 211	