Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ABS RESIN, LUMP		2.4-4.1
ABS RESIN, PELLET		1.5-2.5
ACENAPHTHENE	70	3
ACETAL	70	3.6
ACETAL BROMIDE		16.5
ACETAL DOXIME	68	3.4
ACETALDEHYDE	41	21.8
ACETAMIDE	68	4
ACETAMIDE	180	59
ACETAMIDE		41
ACETANILIDE	71	2.9
ACETIC ACID	68	6.2
ACETIC ACID (36 DEGREES F)	36	4.1
ACETIC ANHYDRIDE	66	21
ACETONE	77	20.7
ACETONE	127	17.7
ACETONE	32	1.0159
ACETONITRILE	70	37.5
ACETOPHENONE	75	17.3
ACETOXIME	24	3
ACETYL ACETONE	68	23.1
ACETYL BROMIDE	68	16.5
ACETYL CHLORIDE	68	15.8
ACETYLE ACETONE	68	25
ACETYLENE	32	1.0217
ACETYLMETHYL HEXYL KETONE	66	27.9
ACRYLIC RESIN		2.7 - 4.5
ACTEAL	21	3.6
ACTETAMIDE		4
AIR		1
AIR (DRY)	68	1.000536
ALCOHOL, INDUSTRIAL		16-31
ALKYD RESIN		3.5-5
ALLYL ALCOHOL	58	22
ALLYL BROMIDE	66	7
ALLYL CHLORIDE	68	8.2
ALLYL IODIDE	66	6.1
ALLYL ISOTHIOCYANATE	64	17.2
ALLYL RESIN (CAST)		3.6 - 4.5
ALUMINA		9.3-11.5
ALUMINA		4.5
ALUMINA CHINA		3.1-3.9
ALUMINUM BROMIDE	212	3.4
ALUMINUM FLUORIDE		2.2
ALUMINUM HYDROXIDE		2.2
ALUMINUM OLEATE	68	2.4

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ALUMINUM PHOSPHATE		6
ALUMINUM POWDER		1.6-1.8
AMBER		2.8-2.9
AMINOALKYD RESIN		3.9-4.2
AMMONIA	-74	25
AMMONIA	-30	22
AMMONIA	40	18.9
AMMONIA	69	16.5
AMMONIA (GAS?)	32	1.0072
AMMONIUM BROMIDE		7.2
AMMONIUM CHLORIDE		7
AMYL ACETATE	68	5
AMYL ALCOHOL	-180	35.5
AMYL ALCOHOL	68	15.8
AMYL ALCOHOL	140	11.2
AMYL BENZOATE	68	5.1
AMYL BROMIDE	50	6.3
AMYL CHLORIDE	52	6.6
AMYL ETHER	60	3.1
AMYL FORMATE	66	5.7
AMYL IODIDE	62	6.9
AMYL NITRATE	62	9.1
AMYL THIOCYANATE	68	17.4
AMYLAMINE	72	4.6
AMYLENE	70	2
AMYLENE BROMIDE	58	5.6
AMYLENETETRARARBOXYLATE	66	4.4
AMYLMERCAPTAN	68	4.7
ANILINE	32	7.8
ANILINE	68	7.3
ANILINE	212	5.5
ANILINE FORMALDEHYDE RESIN		3.5 - 3.6
ANILINE RESIN		3.4-3.8
ANISALDEHYDE	68	15.8
ANISALDOXINE	145	9.2
ANISOLE	68	4.3
ANITMONY TRICHLORIDE		5.3
ANTIMONY PENTACHLORIDE	68	3.2
ANTIMONY TRIBROMIDE	212	20.9
ANTIMONY TRICHLORIDE	166	33
ANTIMONY TRICHLORIDE		5.3
ANTIMONY TRICODIDE	347	13.9
APATITE		7.4

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ARGON	-376	1.5
ARGON	68	1.000513
ARSENIC TRIBROMIDE	98	9
ARSENIC TRICHLORIDE	150	7
ARSENIC TRICHLORIDE	70	12.4
ARSENIC TRIIODIDE	302	7
ARSINE	-148	2.5
ASBESTOS		3-3.5
ASBESTOS		4.8
ASH (FLY)		1.7 - 2.0
ASPHALT	75	2.6
ASPHALT, LIQUID		2.5-3.2
AZOXYANISOLE	122	2.3
AZOXYBENZENE	104	5.1
AZOXYPHENITOLE	302	6.8
BAKELITE		3.5-5.0
BALLAST		5.4-5.6
BALLMILL FEED (CEMENT)		4.5
BALM, REFUSE		3.1
BARIUM CHLORIDE		9.4
BARIUM CHLORIDE (ANHYD)		11
BARIUM CHLORIDE (2H20)		9.4
BARIUM NITRATE		5.8
BARIUM SULFATE	60	11.4
BARLEY FLOUR		3.0 - 4.0
BARLEY POWDER		3.0-4.0
BEESWAX		2.7 - 3.0
BENZAL CHLORIDE	68	6.9
BENZALDEHYDE	20	17.8
BENZALDEHYDE	68	17.8
BENZALDEHYDE	68	18
BENZALDOXIME	68	3.8
BENZENE	68	2.3
BENZENE	275	2.1
BENZENE	700	1.0028
BENZIL	202	13
BENZONITRILE	68	26
BENZOPHENONE	122	11.4
BENZOPHENONE	68	13
BENZOTRICHLORIDE	68	7.4
BENZOYL CHLORIDE	70	22.1
BENZOYL CHLORIDE	32	23
BENZOYLACETONE	68	29
BENZYL ACETATE	70	5
BENZYL ALCOHOL	68	13
BENZYL BENZOATE	68	4.8

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
BENZYL CHLORIDE	68	6.4
BENZYL CYANIDE	68	18.3
BENZYL CYANIDE	155	6
BENZYL SALICYLATE	68	4.1
BENZYLAMINE	68	4.6
BENZYLETHYLAMINE	68	4.3
BENZYLMETHYLAMINE	67	4.4
BERYL		6
BIPHENYL		20
BIWAX		2.5
BLEACHING POWDER		4.5
BONE BLACK		5.0-6.0
BORNYL ACETATE	70	4.6
BORON BROMIDE	32	2.6
BORONYL CHLORIDE	202	5.2
BROMACEYTAL BROMIDE		12.6
BROMAL	70	7.6
BROMINE	68	3.1
BROMINE	32	1.0128
BROMO-2-ETHOXYPENTANE	76	6.5
BROMOACETYL BROMIDE	68	12.6
BROMOANILINE	68	13
BROMOANISOLE	86	7.1
BROMOBENZENE	68	5.4
BROMOBUTYLENE	68	5.8
BROMOBUTYRIC ACID	68	7.2
BROMOCTADECANE		3.53
BROMODECANE	76	4.4
BROMODEODECANE	76	4.1
BROMODOCOSANE	130	3.1
BROMODOECANE	75	4.07
BROMOFORM	68	4.4
BROMOHEPTANE	76	5.3
BROMOHEXADECANE	76	3.7
BROMOHEXANE	76	5.8
BROMOISOVALERIC ACID	68	6.5
BROMOMETHANE	32	9.8
BROMONAPTHALENE	66	5.1
BROMOOCTADECANE	86	3.5
BROMOPENTADECANE	68	3.9
BROMOPHROPIONIC ACID	68	11
BROMOTOLUENE	68	5.1
BROMOTRIDECANE	50	4.2
BROMOUNDECANE	15	4.7

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
BRONYL CHLORIDE	94	5.21
BUTANE	30	1.4
BUTANOL (1)	68	17.8
BUTANONE	68	18.5
BUTYCIC ANHYDRIDE	20	12
BUTYL CHLORAL	64	10
BUTYL CHLORIDE	68	9.6
BUTYL OLEATE	77	4
BUTYL STEARATE	80	3.1
BUTYLACETATE	66	5.1
BUTYLAMINE	70	5.4
BUTYRALDEHYDE	79	13.4
BUTYRIC ACID	68	3
BUTYRIC ANHYDRIDE	68	12
BUTYRONITRILE	21	10.7
BUTYRONITRILE	70	20.7
CABLE OIL	80	2.2
CABONDIOXIDE	68	1.000921
CALCIM FLUORIDE		7.4
CALCITE		8
CALCIUM		3
CALCIUM CARBONATE		6.1-9.1
CALCIUM FLUORIDE		7.4
CALCIUM OXIDE, GRANULE		11.8
CALCIUM SULFATE		5.6
CALCIUM SULFATE (H2O)		5.6
CALCIUM SUPERPHOSPHATE		14-15
CAMPHANEDIONE	398	16
CAMPHENE	68	2.7
CAMPHENE	104	2.3
CAMPHER, CRYSTAL		11-Oct
CAMPHORIC IMIDE	480	5.5
CAMPHORPINACONE	68	3.6
CAPRILIC ACID	18	3.2
CAPROIC ACID	160	2.6
CAPROLACTAM MONOMER		1.7 - 1.9
CAPRYLIC ACID	65	3.2
CARBIDE		5.8 - 7.0
CARBIDE, POWDER		5.8-7.0
CARBON BLACK		2.5 - 3.0
CARBON DIOXIDE	32	1.6
CARBON DIOXIDE, LIQUID		1.6
CARBON DISULFIDE, LIQUID		2.6

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
CARBON DISULPHIDE	68	2.6
CARBON DISULPHIDE	180	2.2
CARBON TETRACHLORIDE	68	2.2
CARNAUBA WAX		2.9
CARVENONE	68	18.4
CARVOL	64	11.2
CARVONE	71	11
CASEIN		6.1 - 6.8
CASEIN RESIN		6.7
CASSITERITE		23.4
CASTER OIL		2.6-4.8
CASTOR OIL	60	4.7
CASTOR OIL	80	2.6
CASTOR OIL (HYDROGENATED)	80	10.3
CEDRENE	76	3.2
CELLOPHANE		3.2-6.4
CELLULOID		3.3-11
CELLULOSE		3.2-7.5
CELLULOSE ACETATE		3.2-7
CELLULOSE ACETATE (MOLDING)		3.2 - 7.0
CELLULOSE ACETATE (SHEET)		4.0 - 5.5
CELLULOSE ACETATE BUTYRATE		3.2 - 6.2
CELLULOSE NITRATE (PROXYLIN)		6.4
CEMENT		1.5 - 2.1
CEMENT (PLAIN)		1.5 - 2.1
CEMENT, PORTLAND		2.5-2.6
CEMENT, POWDER		10-May
CEREALS (DRY)		3.0 - 5.0
CERESE WAX		2.4
CESIUM IODINE		5.6
CETYL IODIDE	68	3.3
CHARCOAL		1.2-1.81
CHINAWARE, HARD		7-Apr
CHLORACETIC ACID	140	12.3
CHLORACETONE		29.8
CHLORAL	68	4.9
CHLORHEXANONE OXIME		3
CHLORINE	-50	2.1
CHLORINE	32	2
CHLORINE	142	1.5
CHLORINE, LIQUID		2
CHLOROACETIC ACID	68	21

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
CHLOROACETONE	68	29.8
CHLOROBENZENE	77	5.6
CHLOROBENZENE	100	4.7
CHLOROBENZENE	230	4.1
CHLOROBENZINE, LIQUID		5.5-6.3
CHLOROCYCLOHEXANE	76	7.6
CHLOROFORM	0	5.5
CHLOROFORM	68	4.8
CHLOROFORM	212	3.7
CHLOROHEPTANE	71	5.5
CHLOROHEXANONE OXIME	192	3
CHLOROHYDRATE	68	3.3
CHLOROMETHANE	-4	12.6
CHLORONAPHTHALENE	76	5
CHLOROOCTANE	76	5.1
CHLOROPHETANE		5.4
CHLOROTOLUENE	68	4.7
CHLOROTOLUENE, LIQUID		4-4.5
CHOLESTERIN		2.86
CHOLESTRAL	80	2.9
CHORINE	170	1.7
CHROME, ORE		7.7-8.0
CHROME, PURE		12
CHROMITE		4.0-4.2
CHROMYL CHORIDE	68	2.6
CINNAMALDEHYDE	75	16.9
CIS-3-HEXENE	76	2.1
CITRACONIC ANHYDRIDE	68	40.3
CITRACONIC NITRILE		27
CLAY		1.8 - 2.8
CLINKER (CEMENT)		2.7
COAL TAR		2.0-3.0
COAL, POWDER, FINE		4-Feb
COCAINE	68	3.1
COFFEE REFUSE		2.4-2.6
COKE		1.1 - 2.2
COMPOUND		3.6
COPPER CATALYST		6.0 - 6.2
COPPER OLEATE	68	2.8
COPPER OXIDE		18.1
CORDERITE		4.5 - 5.4
CORDERITE		2.5 - 3.4
CORN		10-May
CORN (DRY GRANULARS)		1.8

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
CORN, REFUSE		2.3-2.6
CORNING GLASS		6.5
COTTON		1.3-1.4
COTTON SEED OIL		3.1
CO2	32	1.6
CREOSOL	63	10.6
CRESOL	75	5
CRESOL, LIQUID		11-Sep
CROTONIC NITRICE	68	28
CRYSTALE		3.5-4.7
CUMALDEHYDE	59	11
CUMENE	68	2.4
CUMICALDEHYDE	58	10.7
CUPRIC OLEATE		2.8
CUPRIC OXIDE	60	18.1
CUPRIC SULFATE		10.3
CUPRIC SULFATE (ANHYD)		10.3
CUPRIC SULFATE (5H2O)		7.8
CYANOACETIC ACID	40	33
CYANOETHYL ACETATE	68	19.3
CYANOGEN	73	2.6
CYCLOHEDANE	20	2
CYCLOHENANONE	68	18.2
CYCLOHEPTASILOXANE	68	2.7
CYCLOHEXANE	68	2
CYCLOHEXANE, LIQUID		18.5
CYCLOHEXANECARBOXYLIC ACID	88	2.6
CYCLOHEXANEMETHANOL	140	9.7
CYCLOHEXANEMTHANOL	60	9.7
CYCLOHEXANOL	77	15
CYCLOHEXANONE	68	18.2
CYCLOHEXANONE OXIME	192	3
CYCLOHEXENE	68	18.3
CYCLOHEXYLAMINE	-5	5.3
CYCLOHEXYLPHENOL	130	4
CYCLOHEXYLTRIFLUOROMETHANE	-120	11
CYCLOPENTANE	68	2
CYMENE	62	2.3
D-COCAINE		3.1
D.M.T. (DACRON POWDER)		1.33

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
DECAHYDRONAPHTOLENE	68	2.2
DECAMETHYLCYCLOPENTASILOXANE	68	2.5
DECAMETHYLTETRASILOXANE	68	2.4
DECANAL		8.1
DECANE	68	2
DECANOL	68	8.1
DECYLENE	62	2.7
DECYNE	68	2.2
DEUTERIUM	68	1.3
DEUTERIUM OXIDE	77	78.3
DEXTRIN		2.2-2.4
DIACETOXYBUTANE	76	6.64
DIALLYL SULFIDE	68	4.9
DIAMOND		5.5
DIAMOND		10
DIAPHENYLMETHANE		2.7
DIAPLMITIN		3.5
DIBENZOFURAN	212	3
DIBENZYL SEBACATE	68	4.6
DIBENZYLAMINE	68	3.6
DIBROHEPTANE	24	5.08
DIBROMOBENZENE	68	8.8
DIBROMOBUTANE	68	5.7
DIBROMOETHYLENE (CIS-1, 2)	32	7.7
DIBROMOHEPTANE	76	5.1
DIBROMOHEXANE	76	5
DIBROMOMETHANE	50	7.8
DIBROMOPROPANE	68	4.3
DIBROMOPROPYL ALCOHOL	70	9.1
DIBUTYL PHTHALATE	86	6.4
DIBUTYL SEBACATE	86	4.5
DIBUTYL TARTRATE	109	9.4
DICHLORACETIC ACID	20	10.7
DICHLORACETIC ACID	72	8.2
DICHLORACETONE	68	14
DICHLOROBENZENE	127	2.8
DICHLOROETHANE	68	16.7
DICHLOROETHANE (1,2)	77	10.3
DICHLOROETHYLENE	62	4.6
DICHLOROMETHANE	68	9.1
DICHLOROSTYRENE	76	2.6
DICHLOROTOLUENE	68	6.9
DICTYL PHTHALATE		5.1

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
DICYCLOHEXYL ADIPATE	95	4.8
DIEBENZYLAMINE	68	3.6
DIETHYL BENZALMALONATE	32	8
DIETHYL DISULFIDE	66	15.9
DIETHYL DL-MALATE	64	10.2
DIETHYL GLUTARATE	86	6.7
DIETHYL I-MALATE		9.5
DIETHYL KETONE	58	17.3
DIETHYL L-MALATE	68	9.5
DIETHYL MALONATE	70	7.9
DIETHYL OXALATE	70	8.2
DIETHYL OXALOACETATE	66	6.1
DIETHYL RACEMATE	68	4.5
DIETHYL SEBACATE	86	5
DIETHYL SUCCINATE	86	6.6
DIETHYL SUCCINOSUCCINATE	66	2.5
DIETHYL SULFIDE	68	7.2
DIETHYL SULFITE	68	15.9
DIETHYL TARTRATE	68	4.5
DIETHYL ZINC	68	2.6
DIETHYL 1-MALATE	68	9.5
DIETHYL-DIMALATE		10.2
DIETHYLAMINE	68	3.7
DIETHYLANILINE	66	5.5
DIHYDROCAROONE	66	8.7
DIHYDROCARVONE	66	8.5
DIIMYLAMINE	64	2.5
DIIOAMYLENE	62	2.4
DIIODOETHYLENE	180	4
DIIODOMETHANE	77	5.3
DIISOAMYL	62	2
DIISOAMYLENE		2.4
DIISOBUTYLAMINE	71	2.7
DIMETHOXYBENZENE	73	4.5
DIMETHYL ETHYL	68	11.7
DIMETHYL ETHYL CARBINOL	68	11.7
DIMETHYL MALONATE	68	10.4
DIMETHYL OXALATE	68	3
DIMETHYL PENTANE	20	1.912
DIMETHYL PHTHALATE	75	8.5
DIMETHYL SULFATE	68	55
DIMETHYL SULFIDE	68	6.3
DIMETHYL-1-HYDROXYBENZENE	62	4.8

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
DIMETHYL-2-HEXANE	68	2.4
DIMETHYLAMINE	32	6.3
DIMETHYLANILINE	68	4.4
DIMETHYLBROMOETHYLENE	68	6.7
DIMETHYLHEPTANE	68	1.9
DIMETHYLPENTANE	68	1.9
DIMETHYLQUINOXALINE	76	2.3
DIMETHYLTOUIDINE	68	3.3
DINITROGEN OXIDE	32	1.6
DINITROGEN TETROXIDE	58	2.5
DIOCTYL PHTHALATE	76	5.1
DIOXANE (1,4)	77	2.2
DIPALMITIN	161	3.5
DIPENTENE	68	2.3
DIPENYLAMINE	125	3.3
DIPHEMYLETHANE	230	2.4
DIPHEMYLETHANE	62	12.6
DIPHENYL	166	2.5
DIPHENYL ETHER	82	3.9
DIPHENYLAMINE	124	3.3
DIPHENYLETHANE	110	2.38
DIPHENYTMETHANE	62	2.6
DIPROPYL KETONE	62	12.6
DIPROPYLAMINE	70	2.9
DISTEARIN	172	3.3
DOCOSANE	122	2
DODECAMETHYLCYCLOHEXISLOXANE	68	2.6
DODECAMETHYLPENTASILOXANE	68	2.5
DODECANE	68	2
DODECANOL	76	6.5
DODECYNE	76	2.2
DOLOMITE		6.8-8.0
DOWTHERM	70	3.4
EBONITE		2.5-2.9
EMERY SAND		16.5
EPICHLORCHYDRIN	68	22.9
EPOXY RESIN (CAST)		3.6
ETHANEDIAMINE	68	14.2
ETHANETHIOL	58	6.9
ETHANETHIOLIC ACID	68	13
ETHANOL	77	24.3
ETHELENE DIAMINE	18	16
ETHELENE OXIDE	-1	13.9
ETHOXY-3-METHYLBUTANE	68	4
ETHOXYBENZENE	68	4.2

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ETHOXYETHYL ACETATE	86	7.6
ETHOXYNAPTHALONE	66	3.3
ETHOXYPENTANE	73	3.6
ETHOXYTOLUENE	68	3.9
ETHYL ACETATE	77	6
ETHYL ACETOACETATE	71	15.9
ETHYL ACETONEOXALATE	66	16.1
ETHYL ACETOPHENONEOXALATE	66	3.3
ETHYL ALCOHOL	77	24.3
ETHYL ALCOHOL (SEE ETHANOL)		
ETHYL AMYL ETHER	68	4
ETHYL BENZENE	68	2.5
ETHYL BENZOATE	68	6
ETHYL BENZOYLACETATE	68	12.8
ETHYL BENZOYLACETOACETATE	70	8.6
ETHYL BENZYL ETHER	68	3.8
ETHYL BROMIDE	64	4.9
ETHYL BROMOISOBUTYRATE	68	7.9
ETHYL BROMOPROPIONATE	68	9.4
ETHYL BUTYRATE	66	5.1
ETHYL CARBONATE	68	3.1
ETHYL CARBONATE	121	14.2
ETHYL CELLULOSE		2.8 - 3.9
ETHYL CHLORACETATE	68	11.6
ETHYL CHLOROFORMATE	68	11.3
ETHYL CHLOROPROPIONATE	68	10.1
ETHYL CINNAMATE	66	5.3
ETHYL CYANOACETATE	68	27
ETHYL CYCLOBUTANE	68	2
ETHYL DODECANOATE	68	3.4
ETHYL ETHER	-148	8.1
ETHYL ETHER	-40	5.7
ETHYL ETHER	68	4.3
ETHYL ETHOXYBENZOATE	70	7.1
ETHYL FORMATE	77	7.1

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ETHYL FORMYLPHENYLACETATE	68	3
ETHYL FUMARATE	73	6.5
ETHYL HYDROXY-TETRACARBOXYLATE		5.9
ETHYL HYDROXY-TETROCARBOXYLATE		2.7
ETHYL HYDROXYMETHYLENEPHENYLACET		5
ETHYL HYDROXYMETHYLENOMALONATE		6.6
ETHYL IODIDE	68	7.4
ETHYL ISO-THIOCANATE	68	19.7
ETHYL ISOTHIOCYANATE	68	19.7
ETHYL LEVULINETE	70	12.1
ETHYL MALEATE	73	8.5
ETHYL MERCAPTAN	68	8
ETHYL NITRATE	68	19.7
ETHYL OLEATE	80	3.2
ETHYL PALMITATE	68	3.2
ETHYL PHENYLACETATE	70	5.4
ETHYL PROPIONATE	68	5.7
ETHYL SALICYLATE	70	8.6
ETHYL SILICATE	68	4.1
ETHYL STEARATE	104	3
ETHYL THIOCYANATE	68	29.6
ETHYL TRICHLORACETATE	68	7.8
ETHYL UNDECANOATE	68	3.6
ETHYL VALERATE	68	4.7
ETHYL 1-BROBUTYRATE	68	8
ETHYL 2-IODOPROPIONATE	68	8.8
ETHYLAMINE	70	6.3
ETHYLANILINE	68	5.9
ETHYLBENZENE	76	3
ETHYLENE CHLORIDE	68	10.5
ETHYLENE CHLOROHYDRIN	77	26
ETHYLENE CYANIDE	136	58.3
ETHYLENE DIAMINE	64	16
ETHYLENE GYLCOL	68	37
ETHYLENE IODIDE		3.4
ETHYLENE OXIDE	25	14

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ETHYLENE TETRAFLOURIDE		1.9-2.0
ETHYLENECHLOROHYDRIN	75	25
ETHYLENEDIAMINE	64	16
ETHYLIC RESIN		2.2-2.3
ETHYLPENTANE	68	1.9
ETHYLTOLUENE	76	2.2
ETIBINE	-58	2.5
EUGENOL	64	6.1
FAB (FROM BOX, 8% MOISTURE)		1.3
FENCHONE	68	12
FERMANIUM TETRACHLORIDE	76	2.4
FERRIC OLEATE	68	2.6
FERROCHROMIUM		1.5-1.8
FERROMANGANESE		5.0-5.2
FERROUS OXIDE	60	14.2
FERROUS SULFATE	58	14.2
FLOUR		2.5-3.0
FLOURINE	-332	1.5
FLOURSPAR		6.8
FLUOROTOLUENE	86	4.2
FLY ASH		1.5-1.7
FLY ASH		1.9 - 2.6
FORMALIN		23
FORMAMIDE	20	84
FORMAMIDE	68	109
FORMIC ACID	60	58
FORSTERITE		6.2
FREON 11	70	3.1
FREON 113	70	2.6
FREON 12	70	2.4
FULLER'S EARTH		1.8 - 2.2
FURAN	77	3
FURFURAL	68	42
FURFURALDEHYDE	68	41.9
GASOLINE	70	2
GERBER OATMEAL (IN BOX)		1.5
GERMANIUM TETRACHLORIDE	77	2.4
GLASS		3.7-10
GLASS (SILICA)		3.8
GLASS, BEAD		3.1
GLASS, GRANULE		7-Jun
GLASS, RAW MATERIAL		2.0-2.5
GLUCOHEPTITOL	248	27

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
GLYCERIN, LIQUID		47-68
GLYCEROL	77	42.5
GLYCEROL	32	47.2
GLYCEROL PHTHALATE (CAST ALKYD)		3.7 - 4.0
GLYCERYL TRIOCETATE	70	6
GLYCOL	77	37
GLYCOL	122	35.6
GLYCOLIC NITRILE	68	27
GRAIN		8-Mar
GRAPHITE		15-Dec
GUAIACOL	0	11
GYPSUM		2.5-6.0
HAGEMANNIE ESTER	20	10.6
HAGEMANNIE ESTER		10.6
HAGEMANNIE ESTER	68	10.6
HALOWAX		4.5
HEAVY OIL		3
HEAVY OIL, C		2.6
HELIUM	-358	1.055
HELIUM, LIQUID		1.05
HEPTADECANONE	60	5.3
HEPTADECANONE		5.3
HEPTADECANONE	140	5.3
HEPTANE	20	1.9
HEPTANE		1.9
HEPTANE	68	1.9
HEPTANE, LIQUID		1.9-2.0
HEPTANOIC ACID		2.5
HEPTANOIC ACIELD	71	2.59
HEPTANONE	20	11.9
HEPTANONE		11.9
HEPTANONE	68	11.9
HEPTAONIC ACID	160	2.6
HEPTYL ALCOHOL	21	6.7
HEPTYL ALCOHOL		6.7
HEPTYL ALCOHOL	70	6.7
HEXAMETHYLDISILOXANE	20	2.17
HEXAMETHYLDISILOXANE		2.1
HEXAMETHYLDISILOXANE	68	2.2
HEXANE	10	1.9
HEXANE	-130	2
HEXANE, LIQUID		5.8-6.3
HEXANOL	24	13.3
HEXANOL		13.3
HEXANOL	77	13.3

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
HEXANONE	15	14.6
HEXANONE		14.6
HEXANONE	59	14.6
HEXDECAMETHYLCYCLOHEPTA SILOXANE		2.7
HEXDECAMETHYLCYCLOHEPTA SILOXANE	68	2.7
HEXYL IODIDE	20	6.6
HEXYL IODIDE		6.6
HEXYLENE	17	2
HEXYLENE		2
HEXYLENE	62	2
HEXYLENE	62	2
HEXYLIODIDE	68	6.6
HYDRAZINE		52.9
HYDRAZINE	68	52
HYDRAZINE	68	52
HYDROCHLORIC ACID		4.12
HYDROCYANIC ACID	21	2.3
HYDROCYANIC ACID		2.3
HYDROCYANIC ACID	32	158
HYDROCYANIC ACID	32	158
HYDROGEN	440	1.23
HYDROGEN	440	1.23
HYDROGEN	212	1.000284
HYDROGEN IODIDE	72	2.9
HYDROGEN BROMIDE	24	3.8
HYDROGEN BROMIDE		3.8
HYDROGEN BROMIDE	-120	7
HYDROGEN BROMIDE	-120	7
HYDROGEN CHLORIDE	28	4.6
HYDROGEN CHLORIDE		4.6
HYDROGEN CHLORIDE	82	4.6
HYDROGEN CHLORIDE	-188	12
HYDROGEN CHLORIDE	82	4.6
HYDROGEN CHLORIDE	-188	12
HYDROGEN CYANIDE	21	95.4
HYDROGEN CYANIDE		95.4
HYDROGEN CYANIDE	70	95.4
HYDROGEN CYANIDE	70	95.4
HYDROGEN FLUORIDE	0	84
HYDROGEN FLUORIDE		84
HYDROGEN FLUORIDE	32	84.2
HYDROGEN FLUORIDE	-100	17
HYDROGEN FLUORIDE	32	84
HYDROGEN FLUORIDE	-100	17
HYDROGEN FLUORIDE (73 DEG. F)		17-Nov

MATERIALS	DEG. F	DIELECTRIC CONSTANT
HYDROGEN FLUORIDE Oc		84
HYDROGEN IODIDE	21	2.9
HYDROGEN IODIDE		2.9
HYDROGEN IODIDE	72	2.9
HYDROGEN PEROXIDE	0	84.2
HYDROGEN PEROXIDE		84.2
HYDROGEN PEROXIDE	32	84.2
HYDROGEN PEROXIDE	32	84.2
HYDROGEN SULFIDE	-84	9.3
HYDROGEN SULFIDE	9	5.8
HYDROGEN SULFIDE		5.8-9.3
HYDROGEN SULFIDE	-120	9.3
HYDROGEN SULFIDE	48	5.8
HYDROGEN SULFIDE	-120	9.3
HYDROGEN SULFIDE	48	5.8
HYDROXY-4-METHY-2-PENTANONE	76	18.2
HYDROXY-4-METHY-2-PENTANONE	76	18.2
HYDROXY-4-METNY-2-PENTANONE		18.2
HYDROXYMETHYLENE CAMPHOR		5.2
HYDROXYMETHYLENE CAMPHOR	86	5.2
HYDROXYMETHYLENE CAMPHOR	86	5.2
HYDROXYMETHYLENE-HYDROXYMETHYLENEACETOACETATE		7.8
HYDROXYMETHYLENEBENZYL CYANIDE		6
HYDROXYMETHYLENEBENZYL CYANIDE	68	6
HYDROZINE	20	52.9
HYDROZINE	68	52.9
HYDROZINE	68	52.9
IDO-IDOHEXADECANE	20	3.5
IDO-IODOHEXADECANE	68	3.5
IDO-IODOPHEXADECANE		3.5
IDOHEPTANE	71	4.9
IDOHEXANE	68	5.4
IDOMETHANE	68	7
IDOPOCTANE		4.62
IDOPOCTANE	76	4.6
IDOTOLUENE	68	6.1
ILMENITE		6.0-7.0

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ILMENITE		6.0 - 7.0
INADOL	140	7.8
INDANOL		7.8
INDONOL	60	7.8
IODINE	107	118
IODINE		11
IODINE	250	118
IODINE		4
IODINE		4
IODIOCTANE		4.6
IODLOCTANE	24	4.62
IODOBENZENE	68	4.6
IODOHEPTANE	22	4.92
IODOHEPTANE		4.9
IODOHEXANE	20	5.37
IODOHEXANE		5.3
IODOMETHANE	20	7
IODOMETHANE		7
IODOTOLUENE	20	6.1
IODOTOLUENE		6.1
IRON OXIDE		14.2
ISO BUTYL ALCOHOL		18.7-31.7
ISO BUTYL IODIDE		5.8
ISO BUTYL NITRATE		11.9
ISO BUTYLAMINE		4.5
ISO BUTYRIC ACID		2.7
ISO BUTYRONITRILE		20.8
ISO VALERIC ACID	20	2.7
ISO VALERICD ACID	68	2.6
ISO VALORIC ACID		2.7
ISO-BUTYL ALCOHOL	-79	31.7
ISO-BUTYL ALCOHOL	0	20.5
ISO-BUTYL ALCOHOL	20	18.7
ISO-BUTYL ALCOHOL	-112	31.7
ISO-BUTYL ALCOHOL	32	20.5
ISO-BUTYL ALCOHOL	68	18.7
ISO-BUTYL IODIDE	20	5.8
ISO-BUTYL IODIDE	68	5.8
ISO-BUTYL NITRATE	19	11.9
ISO-BUTYL NITRATE	66	11.9
ISO-BUTYLACETATE	20	5.6
ISO-BUTYLACETATE		5.6
ISO-BUTYLACETATE	68	5.6
ISO-BUTYLAMINE	21	4.5
ISO-BUTYLAMINE	70	4.5
ISO-BUTYRIC ACID	20	2.7
ISO-BUTYRIC ACID	68	2.7
ISO-BUTYRONITRILE	23.9	20.8
ISO-BUTYRONITRILE	75	20.8

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ISO-IODOHEXADECANE		3.5
ISO-PROPYL ALCOHOL	20	18.3
ISO-PROPYL ALCOHOL	20	18.3
ISO-PROPYL ALCOHOL	68	18.3
ISO-PROPYL NITRATE	19	11.5
ISO-PROPYL NITRATE	66	11.5
ISO-VALERIC ACID	20	2.7
ISO-VALERIC ACID		2.7
ISO-VALERIC ACID	68	2.7
ISOAMYL VALERATE	19	3.6
ISOAMYL ACETATE	68	5.6
ISOAMYL ALCOHOL	23	15.3
ISOAMYL ALCOHOL		15.3
ISOAMYL ALCOHOL	74	15.3
ISOAMYL BROMIDE	24	6.1
ISOAMYL BROMIDE		6.1
ISOAMYL BROMIDE	76	6.1
ISOAMYL BUTYRATE	20 C	3.9
ISOAMYL BUTYRATE		3.9
ISOAMYL BUTYRATE	68	3.9
ISOAMYL CHLORACETATE	20	7.8
ISOAMYL CHLORACETATE	68	7.8
ISOAMYL CHLORIDE	18	6.4
ISOAMYL CHLORIDE		6.4
ISOAMYL CHLORIDE	64	6.4
ISOAMYL CHLOROACETATE		7.8
ISOAMYL CHLOROFORMATE	20	7.8
ISOAMYL CHLOROFORMATE		7.8
ISOAMYL CHLOROFORMATE	68	7.8
ISOAMYL IODIDE	18	5.6
ISOAMYL IODIDE		5.6
ISOAMYL LODIDE	65	5.6
ISOAMYL PROPIONATE	20	4.2
ISOAMYL PROPIONATE	68	4.2
ISOAMYL SALICYLATE	20	5.4
ISOAMYL SALICYLATE		5.4
ISOAMYL SALICYLATE	68	5.4
ISOAMYL VALERATE		3.6
ISOAMYL VALERATE	66	3.6
ISOAMYLPROPIONATE		4.2
ISOBUTHYL RESIN		1.4-2.1
ISOBUTYL ACETATE	20	5.6
ISOBUTYL ACETATE		5.6

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ISOBUTYL ALCOHOL	20	18.7
ISOBUTYL ALCOHOL		18.7
ISOBUTYL ALCOHOL	68	18.7
ISOBUTYL BENZOATE		5.9
ISOBUTYL BENZOATE	68	5.9
ISOBUTYL BROMIDE	20	6.6
ISOBUTYL BROMIDE	20	4
ISOBUTYL BROMIDE		6.6
ISOBUTYL BROMIDE	68	6.6
ISOBUTYL BUTYRATE	20	4
ISOBUTYL BUTYRATE		4
ISOBUTYL BUTYRATE	68	4
ISOBUTYL CHLORIDE	20	7.1
ISOBUTYL CHLORIDE		7.1
ISOBUTYL CHLORIDE	68	7.1
ISOBUTYL CHLOROFORMATE	20	9.2
ISOBUTYL CHLOROFORMATE		9.2
ISOBUTYL CHLOROFORMATE	68	9.2
ISOBUTYL CYANIDE	23	13.3
ISOBUTYL CYANIDE		13.3
ISOBUTYL CYANIDE	74	13.3
ISOBUTYL FORMATE	19	6.5
ISOBUTYL FORMATE		6.5
ISOBUTYL FORMATE	66	6.5
ISOBUTYL IODIDE	20	5.8
ISOBUTYL IODIDE		5.8
ISOBUTYL IODIDE	68	5.8
ISOBUTYL NITRATE	19	11.9
ISOBUTYL NITRATE		11.9
ISOBUTYL NITRATE	66	11.9
ISOBUTYL RININOLEATE		4.7
ISOBUTYL RININOLEATE	70	4.7
ISOBUTYL RINONOLEATE	21	4.7
ISOBUTYL VALERATE	19	3.8
ISOBUTYL VALERATE		3.8
ISOBUTYL VALERATE	66	3.8
ISOBUTYLAMINE	21	4.5
ISOBUTYLAMINE		4.5
ISOBUTYLAMINE	70	4.5
ISOBUTYLBENZENE	17	2.3
ISOBUTYLBENZENE		2.3
ISOBUTYLBENZENE	62	2.3
ISOBUTYLBENZOATE	20	5.9
ISOBUTYLENE BROMIDE		4

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ISOBUTYLENE BROMIDE	68	4
ISOBUTYRIC ACID	20	2.6
ISOBUTYRIC ACID		2.6
ISOBUTYRIC ACID	50	2.7
ISOBUTYRIC ANHYDRIDE	20	13.9
ISOBUTYRIC ANHYDRIDE	68	13.9
ISOBUTYRIC ANNYDRIDE		13.9
ISOBUTYRONITRILE	24	20.8
ISOBUTYRONITRILE		20.8
ISOBUTYRONITRILE	75	20.8
ISOCAPRONITRILE	20	15.7
ISOCAPRONITRILE		15.7
ISOCAPRONITRILE	68	15.7
ISOOCTANE		2.1-2.3
ISOPHTHALIC ACID		1.4
ISOPRENE	77	2.1
ISOPROPYL ALCOHOL		18.3
ISOPROPYL BENZENE	68	2.4
ISOPROPYL NITRATE		11.5
ISOPROPYLAMINE	20	5.5
ISOPROPYLAMINE	20	5.5
ISOPROPYLAMINE		5.5
ISOPROPYLAMINE	68	2.4
ISOPROPYLETHER	77	3.9
ISOQUINOLINE	24	10.7
ISOQUINOLINE		10.7
ISOQUINOLINE	76	10.7
ISOQUINOLINE	68	10.7
ISOSAFRAL	21	3.4
ISOSAFROL		3.4
ISOSAFROL	70	3.4
JET FUEL (JP4)	70	1.7
JET FUEL (MILITARY JP4)		1.7
JET FUEL (MILITARY-JP4)	21	1.7
JP4 JET FUEL	70	1.7
KENT WAX		6.5-7.5
KEROSENE	21	1.8
KEROSENE		2.8
KEROSENE	70	1.8
KEROSENE	70	1.8
KYNAR		2
LACTIC ACID	19 C	19.4
LACTIC ACID		19.4

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
LACTIC ACID	61	22
LACTONITRILE	20	4.7
LACTONITRILE		38.4
LACTRONITRILE	68	38.4
LAD OXIDE		25.9
LEAD ACETATE		2.5
LEAD ACETATE		2.5
LEAD ACETATE		2.5
LEAD CARBONATE		18.1
LEAD CARBONATE (60 DEG. F)		18.1
LEAD CARBONATE (60 DEGREES F)		18.1
LEAD CHLORIDE		4.2
LEAD CHLORIDE		4.2
LEAD CHLORIDE		4.2
LEAD NITRATE		37.7
LEAD NITRATE		37.7
LEAD NITRATE		37.7
LEAD NOMOXIDE		25.9
LEAD NOMOXIDE		25.9
LEAD NOMOXIDE (60 DEGREES F)		25.9
LEAD OLEATE	18	3.2
LEAD OLEATE		3.2
LEAD OLEATE	64	3.2
LEAD OLEATE		3.3
LEAD OLEATE		3.3
LEAD OXIDE		25.9
LEAD OXIDE		25.9
LEAD SULFATE		14.3
LEAD SULFATE		14.3
LEAD SULFATE		14.3
LEAD SULFITE		17.9
LEAD TETRACHLORIDE	20	2.8
LEAD TETRACHLORIDE		2.8
LEAD TETRACHLORIDE	68	2.8
LIME		2.2 - 2.5
LIMONENE	20	2.3
LIMONENE		2.3
LIMONENE	68	2.3
LINDE 5A MOLECULAR SIEVE, DRY		1.8
LINOLEIC ACID	0	2.9
LINOLEIC ACID		2.6-2.7
LINOLEIC ACID	32	2.9
LINSEED OIL		3.2-3.5
LIQUIDS:		
LIQUIFIED AIR		1.5

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
LIQUIFIED HYDROGEN		1.2
LITHIUM CHLORIDE		11.1
LITYIUM CHLORIDE		11.1
LONONE	18	10
LONONE		10
LONONE	65	10
LPG		1.6-1.9
M-BROMOANILINE	66	13
M-BROMOTOLUENE	137	5.4
M-CHLOROANALINE	66	13.4
M-CHLOROTOLUENE	68	5.6
M-CREOSOL		5
M-CRESOL	24	5
M-CRESOL	77	11.5
M-DICHLOROBENZENE	77	5
M-DINITRO BENZENE	20	2.8
M-DINITRO BENZENE		2.8
M-DINITRO BENZENE	68	2.8
M-NITROTOLUENE	68	23.8
M-SYLENE		2.4
M-TOLUIDINE	64	6
M-XYLENE	20	2.4
M-XYLENE	68	2.4
MAGANESE DIOXIDE		5-5.2
MAGNESIUM OXIDE		9.7
MAGNESIUM OXIDE		9.7
MAGNESIUM OXIDE		9.7
MAGNESIUM SULFATE		8.2
MALACHITE		7.2
MALACHITE		7.2
MALACYHITE		7.2
MALEIC ANHYDRIDE	60	51
MALEIC ANHYDRIDE	140	51
MALOLIC ANHYDRIDE		51
MALONIC NITRILE	36	47
MALONIC NITRILE		47
MALONIC NITRILE	97	47
MANDELIC NITRILE	23	18.1
MANDELIC NITRILE		18.1
MANDELIC NITRILE	73	18.1
MANDELITRILE	73	17
MANDENITRILE	23	17
MANDENITRILE		17
MANNITOL	22	3
MANNITOL		3
MANNITOL	71	3
MARGARINE, LIQUID		2.8-3.2
MELAMINE FORMALDEHYDE (MF)		

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
(MF) MOLDING RESIN		5.5 - 6.0
(MF) WITH ALPHA CELLULOSE FILLER		7.2 - 8.2
(MF) WITH ASBESTOS FILLER		6.1 - 6.7
(MF) WITH CELLULOSE FILLER		4.7 - 7.0
(MF) WITH FLOCK FILLER		5.0 - 6.0
(MF) WITH MACERATED FABRIC FILLE		6.5 - 6.9
MELAMINE RESIN		4.7-10.9
MENTHOL	42	3.95
MENTHOL		3.95
MENTHOL	107	4
MENTHONOL	43	2.1
MENTHONOL		2.1
MENTHONOL	110	2.1
MERCURIC CHLORIDE		3.2
MERCURIC CHLORIDE		3.2
MERCURIC CHLORIDE		3.2
MERCUROUS CHLORIDE		9.4
MERCUROUS CHLORIDE		9.4
MERCURY	298	1.00074
MERCURY CHLORIDE		14-Jul
MERCURY DIETHYL	20	2.3
MERCURY DIETHYL		2.3
MERCURY DIETHYL	68	2.3
MESITYL OXIDE	20	15.4
MESITYL OXIDE		15.4
MESITYL OXIDE	68	15.4
MESITYLENE	20	2.4
MESITYLENE	20	3.4
MESITYLENE		3.4
MESITYLENE	68	2.4
MESITYLENE	68	3.4
METHAL CYANOACETATE	21	29.4
METHAL CYANOACETATE		29.4
METHAL CYANOACETATE	69	29.4
METHALLMINE	77	9.4
METHANE	-280	1.7
METHANE, LIQUID		1.7
METHANOL	25	33.6
METHANOL		33.6
METHANOL	77	32.6
METHLENE IDIDE		5.1

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
METHOXY-4-METHYLPHENOL	16	11
METHOXY-4-METHYLPHENOL	60	11
METHOXYBENZENE	24	4.33
METHOXYBENZENE		4.33
METHOXYBENZENE	76	4.3
METHOXYETHYL STEARATE	60	3.9
METHOXYETHYL STEARATE		3.39
METHOXYETHYL STEARATE	140	3.4
METHOXYPHENOL	28	11
METHOXYPHENOL		11
METHOXYPHENOL	82	11
METHOXYTOLUENE	20	3.5
METHOXYTOLUENE		3.5
METHOXYTOLUENE	68	3.5
METHYL ACETATE	20	7.3
METHYL ACETATE		7.3
METHYL ACETATE	77	6.7
METHYL ACETOPHENONEOXALATE	18	2.8
METHYL ACETOPHENONEOXALATE		2.8
METHYL ACETOPHENONEOXALATE	64	2.8
METHYL ALCOHOL	44	56.6
METHYL ALCOHOL	0	37.5
METHYL ALCOHOL	20	33.1
METHYL ALCOHOL		33-56.6
METHYL ALCOHOL	-112	56.6
METHYL ALCOHOL	32	37.5
METHYL ALCOHOL	68	33.1
METHYL ALCOHOL, LIQUID		32.6
METHYL BENZOATE	20	6.6
METHYL BENZOATE		6.6
METHYL BENZOATE	68	6.6
METHYL BUTANE	68	1.8
METHYL BUTYL KETONE	17	12.4
METHYL BUTYL KETONE		12.4

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
METHYL BUTYL KETONE	62	12.4
METHYL BUTYRATE	20	5.6
METHYL BUTYRATE		5.6
METHYL BUTYRATE	68	5.6
METHYL CHLORIDE	25	12.9
METHYL CHLOROACETATE	20	12.9
METHYL CHLOROACETATE		12.9
METHYL CHLOROACETATE	68	12.9
METHYL ETHER	26	5
METHYL ETHER	78	5
METHYL ETHYL KETONE	22	18.4
METHYL ETHYL KETONE		18.4
METHYL ETHYL KETONE	72	18.4
METHYL ETHYL KETOXIME	20	3.4
METHYL ETHYL KETOXIME		3.4
METHYL ETHYL KETOXIME	68	3.4
METHYL FORMATE	68	8.5
METHYL HEPTANOL	20	5.25
METHYL HEPTANOL		5.25
METHYL HEPTANOL	68	5.3
METHYL IODIDE	20	7.1
METHYL IODIDE		7.0-7.1
METHYL IODIDE	68	7.1
METHYL KEXYL KETONE	17	10.7
METHYL KEXYL KETONE		10.7
METHYL KEXYL KETONE	62	10.7
METHYL METHACRYLATE (CAST)		2.7 - 3.2
METHYL NITROBENZOATE	27	27
METHYL NITROBENZOATE		27
METHYL NITROBENZOATE	80	27
METHYL O METHOXYBENZOATE		7.8

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
METHYL O-METHOXYBENZOATE	70	7.8
METHYL O-METHOXYBENZONATE	21	7.8
METHYL P-TOLUATE	22	4.3
METHYL P-TOLUATE		4.3
METHYL P-TOLUATE	91	4.3
METHYL PROPIANTE		5.4
METHYL PROPIONATE	19	5.4
METHYL PROPIONATE	66	5.4
METHYL PROPYL KETONE	14	16.8
METHYL PROPYL KETONE		16.8
METHYL PROPYL KETONE	58	16.8
METHYL SALICYLATE		9
METHYL SALICYLATE	68	9
METHYL SALICYLCATE	20	9
METHYL THIOCYANATE	20	35.9
METHYL THIOCYANATE		35.9
METHYL THIOCYANATE	68	35.9
METHYL VALERATE	19	4.3
METHYL VALERATE		4.3
METHYL VALERATE	66	4.3
METHYL 5 KETOCYCLOHEXYLENE	68	24
METHYL-FIVE-KETOCYCLOHEXYLENE		24
METHYL-L-CYCLOPENTANOL	95	6.9
METHYL-ONE-CYCLOPENTANOL		6.9
METHYL-TWO, FOUR PENTANEDIOL		24.4
METHYL-TWO-PENTANONE		13.1
METHYL-1-CYCLOPENTANOL	35	6.9
METHYL-2 4-PENTANDEIOL	86	24.4
METHYL-2,4-PENTANEDIOL	30	24.4
METHYL-2-LPENTANONE	68	13.1
METHYL-2-PENTANONE	20	13.1
METHYL-5-KETOCYCLOHEXYLENE	20	24
METHYLAL	20	2.7

MATERIALS	DEG. F	DIELECTRIC CONSTANT
METHYLAL		2.7
METHYLAL	68	2.7
METHYLANILINE	20	6
METHYLANILINE		6
METHYLBENZYLAMINE	18	4.4
METHYLBENZYLAMINE		4.4
METHYLBENZYLAMINE	65	4.4
METHYLCYCLOHEXANOL	20 C	13
METHYLCYCLOHEXANOL		13
METHYLCYCLOHEXANONE	89	18
METHYLCYCLOHEXANONE		18
METHYLCYCLOHEXANONE	192	18
METHYLCYCLONHEXANOL	68	13
METHYLCYCLOPENTANE		1.9
METHYLCYLOPENTANE	20	1.985
METHYLCYLOPENTANE	68	2
METHYLENE IODIDE	21	5.1
METHYLENE IODIDE	70	5.1
METHYLENEACELOACETATE	70	7.8
METHYLENEMALONATE	72	6.6
METHYLENEPHENYLACETATE	68	5
METHYLETHER, LIQUID		5
METHYLHEXANE	20	1.919
METHYLHEXANE		1.9
METHYLHEXANE	68	1.9
METHYLISOCYANATE	69	29.4
METHYLOCTANE	26	30
METHYLOCTANE		30
METHYLOCTANE	69	30
METHYLOMINE	21	10.5
METHYLOMINE		10.5
METHYLPHENYL HYDRAZIN	19	7.3
METHYLPHENYL HYDRAZIN	66	7.3
METHYLPHENYL HYDRAZINE		7.3
METHYLPYRIDINE (2)	68	9.8
METNOXY-FOUR-METHYL PHENOL		11

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
MICA		2.6-3.2
MICA		7
MICA		7
MICA (GLASS BONDED)		6.9 - 9.2
MICANITE		1.8-2.6
MILLS (DRY POWDER)		1.8
MINERAL OIL	27	2.1
MINERAL OIL		2.1
MINERAL OIL	80	2.1
MINERAL OIL	80	2.1
MONOMYRISTIN	70	6.1
MONOMYRISTIN	158	6.1
MONOMYRSTIN		6.1
MONOPALMITIN	66	5.34
MONOPALMITIN		5.34
MONOPALMITIN	152	5.3
MONOSTEARIN	77	4.87
MONOSTEARIN		4.87
MONOSTEARIN	170	4.9
MORPHOLINE	77	7.3
N BUTYL ALCOHOL		7.8
N BUTYL BROMIDE		6.6
N BUTYL FORMATE		2.4
N BUTYL IODIDE		6.1
N BUTYLACETATE		5.1
N BUTYRICACID		2.9
N-BUTYL ALCOHOL	19	7.8
N-BUTYL ALCOHOL	66	7.8
N-BUTYL BROMIDE	20	6.6
N-BUTYL BROMIDE	68	6.6
N-BUTYL FORMATE	-189	2.4
N-BUTYL FORMATE	-317	2.4
N-BUTYL IODIDE	25	6.1
N-BUTYL IODIDE	77	6.1
N-BUTYLACETATE	19	5.1
N-BUTYLACETATE		5.1
N-BUTYRICACID	20	2.9
N-BUTYRICAID	68	2.9
N-HEXANE	68	1.9
N-METHYLANILINE	68	6
N-PENTANE	68	1.8
NAPHTHY ETHYL ETHER	19	3.2
NAPHTHYL ETHYL ETHER		3.2
NAPTHALENE	85	2.3
NAPTHALENE	20	2.5
NAPTHALENE		2.54
NAPTHALENE		2.3
NAPTHALENE	185	2.3

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
NAPTHALENE	68	2.5
NAPTHALENE		2.5
NAPTHALENE		2.5
NAPTHONITRILE	21	6.4
NAPTHONITRILE		6.4
NAPTHONITRILE	70	6.4
NAPTHYL ETHYL ETHER	67	3.2
NEON	68	1.000127
NEOPRENE		9-Jun
NIBROBENZENE		26-36.1
NITROANISOLE	20	24
NITROANISOLE		24
NITROANISOLE	68	24
NITROBENZAL DOXIME	120	48.1
NITROBENZAL DOXIME		48.1
NITROBENZAL DOXIME	248	48.1
NITROBENZEN	25 C	34.9
NITROBENZEN	80	26.3
NITROBENZENE	20	36.1
NITROBENZENE		36
NITROBENZENE	68	35.7
NITROBENZENE	77	34.8
NITROBENZENE	176	26.3
NITROBENZYL ALCOHOL	20	22
NITROBENZYL ALCOHOL		22
NITROBENZYL ALCOHOL	68	22
NITROCELLULOSE		6.2-7.5
NITROETHANE	20	19.7
NITROETHANE		19.7
NITROETHANE	83	28
NITROGEN	336	1.454
NITROGEN	68	1.00058
NITROGLYCERIN	20	19
NITROGLYCERIN		19
NITROGLYCERIN	68	19
NITROMETHANE	20	54
NITROMETHANE		22.7-39.4
NITROMETHANE	68	39.4
NITROSODIMETHYLAMINE	20	54
NITROSODIMETHYLAMINE	68	54
NITROSODIUMETHYLAMINE		54
NITROSYL BROMIDE	-16	13.4
NITROSYL BROMIDE		13.4
NITROSYL BROMIDE	4	13
NITROSYL CHLORIDE	-12	18.2
NITROSYL CHLORIDE		18.2

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
NITROSYL CHLORIDE	10	18
NITROTOLUENE	20	1.96
NITROTOLUENE		25
NITROUS OXIDE	0	1.6
NITROUS OXIDE		1.6
NITROUS OXIDE	32	1.6
NITROUS OXIDE	32	1.6
NONANE	20	1.96
NONANE		1.96
NONANE	68	2
NYLON		5-Apr
NYLON		3.5
NYLON		45
NYLON RESIN		3.0 - 5.0
O-BROMOTOLUENE	137	4.3
O-CHLOROPHENOL	19	8.2
O-CHLOROPHENOL	19	8.2
O-CHLOROPHENOL		8.2
O-CHLOROPHENOL	66	8.2
O-CHLOROPHENOL	66	8.2
O-CHLOROTOLUENE	68	4.5
O-CREOSOL		5.8
O-CRESOL	24	5.8
O-CRESOL	77	11.5
O-DICHLOROBENZENE	25	7.5
O-DICHLOROBENZENE	20	7.5
O-DICHLOROBENZENE	20	7.5
O-DICHLOROBENZENE		7.5
O-DICHLOROBENZENE	77	9.9
O-NITRO ANALINE	194	34.5
O-NITROTOLUENE	68	27.4
O-TOLUIDINE	64	6.3
O-XYLENE	68	2.6
OCTADECANOL		3.42
OCTADECANOL	136	3.4
OCTADOCANOL	58	3.42
OCTAMETHYLCYCLOTETRASILOXANE		2.39
OCTAMETHYLCYCLOTETRASILOXANE	68	2.4
OCTAMETHYLTRISILOXANE		2.3
OCTAMETHYLTRISILOXANE	68	2.3
OCTANE	20	1.96
OCTANE	24	1.061
OCTANE		1.96
OCTANE	68	2
OCTANONE	20	10.3

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
OCTANONE		10.3
OCTANONE	68	10.3
OCTENE		2
OCTENE	76	2.1
OCTYL ALCOHOL	18	3.4
OCTYL ALCOHOL		3.4
OCTYL ALCOHOL	64	3.4
OCTYL IODIDE	20	4.9
OCTYL IODIDE		4.9
OCTYL IODIDE	68	4.9
OCTYLENE	18	3.4
OCTYLENE		4.1
OCTYLENE	65	4.1
OIL ALMOND	20	2.8
OIL COTTONSEED	14	3.1
OIL COTTONSEED		3.1
OIL GRAPESEED	16	2.9
OIL LEMON	21	2.3
OIL LENSEED	13	3.4
OIL OLIVE	20	3.1
OIL PARAFFIN	20	2.2-4.7
OIL PEANUT	11	3
OIL PETROLEUM		2.1
OIL PETROLEUM		2.1
OIL PYRANOL	20	5.3
OIL SESAME	13	3
OIL SPERM	10	3.2
OIL TERPENTINE	20	3.2
OIL TRANSFORMER	20	2.2
OIL, ALMOND		2.8
OIL, ALMOND	68	2.8
OIL, COTTON SEED	57	3.1
OIL, FOR TRANSFORMER		2.2-2.4
OIL, GRAPESEED		2.9
OIL, GRAPESEED	61	2.9
OIL, LEMON		2.3
OIL, LEMON	70	2.3
OIL, LINSEED		3.4
OIL, LINSEED	55	3.4
OIL, OLIVE		3.1
OIL, OLIVE	68	3.1
OIL, PARAFFIN		2.2-4.7
OIL, PARAFFIN	68	2.2 - 4.7
OIL, PEANUT		3
OIL, PEANUT	52	3
OIL, PETROLEUM	68	2.1
OIL, PRYANOL		5.3
OIL, PYRANOL	68	5.3

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
OIL, SESAME		3
OIL, SESAME	55	3
OIL, SPERM		3.2
OIL, SPERM	68	3.2
OIL, TERPENTINE	68	2.2
OIL, TRANSFORMER		2.2
OIL, TRANSFORMER	68	2.2
OIL, TURPENTINE		2.2
OLEIC ACID	20	2.46
OLEIC ACID	20	2.5
OLEIC ACID	68	2.5
OLEIC ACID	68	2.5
OLERIC ACID		2.4-2.5
ONE-DICHLOROETHANE		10.7
ONE-DIETHOXYETHANE		3.8
OPAL WAX		3.1
ORGANIC COLD MOLDING COMPOUND		6
OXYGEN	-315	1.51
OXYGEN	68	1.000494
P-BROMOTOLUENE	137	5.5
P-CHLOROPHENOL	130	9.5
P-CHLOROTOLUENE	68	6.1
P-CREOSOL		5.6
P-CRESOL	24	5.6
P-CRESOL	137	9.9
P-CYMENE	17	2.3
P-CYMENE		2.3
P-CYMENE	63	2.3
P-DIBROMOBENZENE	88	4.5
P-DIBROMOBENZENE		4.5
P-DIBROMOBENZENE	190	4.5
P-DICHLOROBENZENE		2.86
P-DICHLOROBENZINE	20	2.86
P-DICHLOROBENZINE	20	2.86
P-DICHLOROBENZINE	120	2.4
P-NITRO ANALINE	320	56.3
P-NITROTOLUENE	137	22.2
P-TOLUDINE		3
P-TOLUIDINE		3
P-TOLUIDINE	130	5
P-TOLUIDINE		3
P-XYLENE	68	2.3
PAINT		8-May
PALMITIC ACID		2.3
PALMITIC ACID		70
PALMITIC ACID	160	2.3
PAPER		2
PAPER		2

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
PAPER (DRY)		2
PARAFFIN		1.9-2.5
PARAFFIN		2.2
PARAFFIN		2.2
PARAFFIN OIL		4.6-4.8
PARAFFIN WAX		2.1-2.5
PARALDEHYDE	20	14.5
PARALDEHYDE		14.5
PARALDEHYDE	77	13.9
PARAWAX		2.3
PARRAFIN CHLORIDE		2.0-2.3
PENANTHIENE	20	2.8
PENTACHLORGETHANE	16	3.7
PENTACHLORGETHANE	60	3.7
PENTADIENE (1,3)	77	2.3
PENTANE	20	1.8
PENTANE		1.8
PENTANOL	77	13.9
PENTANONE (2)	68	15.4
PENTENE (1)	68	2.1
PENTOCHLORETHANE		3.7
PERLITE		1.3 - 1.4
PETROLEUM		2.0-2.2
PHENANTHRENE		2.8
PHENANTHRENE	230	2.7
PHENANTHRENE		2.8
PHENANTHRENE		2.8
PHENATHIENE	68	2.8
PHENATHRENE	110	2.72
PHENETOLE	21	4.5
PHENETOLE		4.5
PHENETOLE	70	4.5
PHENOL	48	9.9
PHENOL	40	15
PHENOL		9.9-15.0
PHENOL	118	9.9
PHENOL	104	15
PHENOL		4.3
PHENOL (50 DEGREES F)		4.3
PHENOL ETHER	29	9.8
PHENOL ETHER		9.8
PHENOL ETHER	85	9.8
PHENOL FORMALDEHYDE RESIN (PFR)		4.5 - 5.0
(PFR)WITH ASBESTOS FILLER		5.0 - 7.0

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
(PFR)WITH GLASS FIBER FILLER		6.6 - 7.0
(PFR)WITH MICA FILLER		4.2 - 5.2
(PFR)WITH MINERAL FILLER (CAST)		9.0 - 15.0
(PFR)WITH SISAL FIBER		3.0 - 5.0
(PFR)WITH WOOD FLOUR FILLER		4.0 - 7.0
PHENOL RESIN		4.9
PHENOL RESIN, CUMULATED		4.6-5.5
PHENOXYACETYLENE	24	4.76
PHENOXYACETYLENE		4.76
PHENOXYACETYLENE	76	4.8
PHENTIDIENE	21	7.3
PHENTIDINE		7.3
PHENTIDINE	70	7.3
PHENYL ACETATE	20	6.9
PHENYL ACETATE		4.5
PHENYL ACETATE	68	6.9
PHENYL ETHER	86	3.7
PHENYL ISO THIOCYANATE		10.7
PHENYL ISO THIOCYANATE	68	10.7
PHENYL ISO-THIOCYANATE	20	10.7
PHENYL ISOCYANATE	20	8.9
PHENYL ISOCYANATE		8.9
PHENYL ISOCYANATE	68	8.9
PHENYL URETHANE		2.7
PHENYL-L-LROPANE	68	2.7
PHENYL-ONE-IROPANE		2.7
PHENYL-1-PROPANE	20	1.7
PHENYLACETALDEHYDE	20	4.8
PHENYLACETALDEHYDE		4.8
PHENYLACETALDEHYDE	68	4.8
PHENYLACETIC	20	3
PHENYLACETIC		3
PHENYLACETIC	68	3
PHENYLACETONITRILE	27	18
PHENYLACETONITRILE		18
PHENYLACETONITRILE	80	18
PHENYLETHANOL	20	13
PHENYLETHANOL		13
PHENYLETHANOL	68	13

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
PHENYLETHYL ACETATE	14	4.5
PHENYLETHYL ACETATE	58	4.5
PHENYLETHYLENE	77	2.4
PHENYLHYDRAZINE	72	7.2
PHENYLSALICYLATE	50	6.3
PHENYLSALICYLATE		6.3
PHENYLSALICYLATE	122	6.3
PHOSGENE	0	4.7
PHOSGENE		4.3
PHOSGENE	32	4.7
PHOSPHINE	-59	2.5
PHOSPHINE		2.5
PHOSPHINE	-76	2.5
PHOSPHORUS	34	4.1
PHOSPHORUS	93	4.1
PHOSPHORUS OXYCHLORIDE		14
PHOSPHORUS OXYCHLORIDE	72	14
PHOSPHORUS PENTACHLORIDE	320	2.8
PHOSPHORUS PENTCHLORIDE		2.8
PHOSPHORUS RED		4.1
PHOSPHORUS TRIBROMIDE		3.9
PHOSPHORUS TRIBROMIDE	68	3.9
PHOSPHORUS TRICHLORIDE		3.7
PHOSPHORUS TRICHLORIDE	77	3.4
PHOSPHORUS YELLOW		3.6
PHOSPHORUS, RED		4.1
PHOSPHORUS, YELLOW		3.6
PHOSPHORYL CHLORIDE		13.3
PHOSPHORYL CHLORIDE	70	13
PHOSPHROUS		4.1
PHTALIDE	166	36
PHTHALIC ACID		5.1-6.3
PHTHALIDE	74	36
PHTHALIDE		36
PINACOLIN	17	12.8
PINACOLIN		12.8

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
PINACOLIN	62	12.8
PINACONE	24	7.4
PINACONE		7.4
PINACONE	75	7.4
PINE TREE RESIN, POWDER		1.5-1.8
PINENE	20	2.7
PINENE		2.7
PINENE	68	2.7
PIPERIDINE	20	5.6
PIPERIDINE		5.9
PIPERIDINE	68	5.9
PLASTER		2.5 - 6.0
PLASTIC GRAIN		65-75
PLASTIC PELLETS		1.1-3.2
PLASTIC SULPHUR, UNGROUND		1.5
PLATINUM CATALYST		6.5 - 7.5
POLY PROPYLENE		1.5
POLYACETAL		3.6-3.7
POLYACETOL RESIN		2.6-3.7
POLYACRYLIC ESTER		3.5
POLYAMIDE		2.5-2.6
POLYBUTYLENE		2.2-2.3
POLYCAPROLACTAM		2.2
POLYCAPROLACTAM		2.0 - 2.5
POLYCARBONATE		2.9-3.0
POLYCARBONATE RESIN		2.9 - 3.0
POLYESTER RESIN		2.8 - 4.5
POLYESTER RESIN (FLEXIBLE)		4.1 - 5.2
POLYESTER RESIN (GLASS FIBER FIL		4.0 - 4.5
POLYESTER RESIN (RIDGID CAST)		2.8 - 4.1
POLYETHER CHLORIDE		2.9
POLYETHER RESIN		2.8-8.1
POLYETHER RESIN, UNSATURATED		2.8-5.2
POLYETHYLENE		2.2-2.4
POLYETHYLENE		2.3
POLYETHYLENE		4 - 5.0
POLYETHYLENE, PELLET		1.5
POLYMIDE		2.8
POLYMONOCHLORO PIFLUOROETHYLENE		2.5
POLYPROPYLENE		1.5

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
POLYPROPYLENE		1.5
POLYPROPYLENE POWDER		1.25
POLYPROPYLENE, PELLET		1.5-1.8
POLYSTYRENE RESIN		2.4 - 2.6
POLYSTYROL		2.0-2,6
POLYSULPHONIC ACID		2.8
POLYTETRA FLUOROETHYLENE		2
POLYVINYL ALCOHOL		1.9-2.0
POLYVINYL CHLORIDE		3.4
POLYVINYLCHLORIDE RESIN		5.8 - 6.8
PORCELAIN		5.0-7.0
PORCELAIN		6.0 - 8.0
PORCELAIN		5 - 7.0
PORCELAIN WITH ZIRCON		7.1 - 10.5
POTASSIUM ALUMINUM SULPHATE		3.8
POTASSIUM ALUMINUM SULPHATE		3.8
POTASSIUM CARBONATE		5.6
POTASSIUM CARBONATE (60 DEG. F)		5.6
POTASSIUM CARBONATE (60 DEGREES		5.6
POTASSIUM CHLORATE		5.1
POTASSIUM CHLORATE		5.1
POTASSIUM CHLORATE		5.1
POTASSIUM CHLORIDE		4.6
POTASSIUM CHLORONATE		7.3
POTASSIUM CHLORONATE		7.3
POTASSIUM IODIDE		5.6
POTASSIUM IODIDE		5.6
POTASSIUM IODIDE		5.6
POTASSIUM NITRATE		5
POTASSIUM NITRATE		5
POTASSIUM NITRATE		5
POTASSIUM SULFATE		5.9
POTASSIUM SULFATE		5.9
POTASSIUM SULFATE		5.9

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
POTSSIUM CHLOROMATE		7.3
POTTASIUM CHLORIDE		5
POWDERED:		
PROPANE	0	1.6
PROPANE	32	1.6
PROPANE	32	1.6
PROPANE, LIQUID, OC		1.6
PROPANEDIOL	68	32
PROPANOL (1)	77	20.1
PROPENE	68	1.9
PROPENE	68	27.7
PROPIONALDEHYDE	17	18.9
PROPIONALDEHYDE		18.9
PROPIONALDEHYDE	62	18.9
PROPIONIC ACID	19	3.1
PROPIONIC ACID		3.1
PROPIONIC ANAHYDRIDE		18
PROPIONIC ANHYDRIDE	16	18
PROPIONIC ANHYDRIDE	60	18
PROPIONITRILE	20	27.7
PROPIONITRILE		27.7
PROPPIONIC ACID	58	3.3
PROPY BUTYRATE	20	4.3
PROPYL ACETATE	20	6.3
PROPYL ACETATE		6.3
PROPYL ACETATE	68	6.3
PROPYL ALCOHOL	20	21.8
PROPYL ALCOHOL		21.8
PROPYL ALCOHOL	68	21.8
PROPYL BENZENE	20 C	2.4
PROPYL BENZENE		2.4
PROPYL BENZENE	68	2.4
PROPYL BROMIDE	20	7.2
PROPYL BROMIDE		7.2
PROPYL BROMIDE	68	7.2
PROPYL BUTYRATE		4.3
PROPYL BUTYRATE	68	4.3
PROPYL CHLOROFORMATE	20	11.2
PROPYL CHLOROFORMATE		11.2
PROPYL CHLOROFORMATE	68	11.2
PROPYL ETHER	78	3.4
PROPYL FORMATE	19	7.9
PROPYL FORMATE		7.9
PROPYL FORMATE	66	7.9

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
PROPYL NITRATE	18	14.2
PROPYL NITRATE		14.2
PROPYL NITRATE	64	14.2
PROPYL PROPIONATE	20	4.7
PROPYL PROPIONATE		4.7
PROPYL PROPIONATE	68	4.7
PROPYL VALERATE	18	4
PROPYL VALERATE		4
PROPYL VALERATE	65	4
PROPYLENE LIQUID		11.9
PSUEDOCUMENE	16	2.4
PSUEDOCUMENE		2.4
PSUEDOCUMENE	60	2.4
PULEGONE		9.5
PULEGONE	68	9.5
PULEZONE	20	9.5
PULEZONE	19	9.7
PULEZONE		9.7
PULEZONE	66	9.7
PVC, POWDER		1.4
PYREX		4.8
PYREX GLASS		4.3 - 5.0
PYRIDINE	20	12.5
PYRIDINE		12.5-25
PYRIDINE	68	12.5
PYROCERAM		3.5-4.5
PYRROLE	63	7.5
QUARTZ		4.3
QUARTZ		4.2
QUARTZ		4.4
QUINOLINE	25	9
QUINOLINE	-179	2.6
QUINOLINE		2.6-9.0
QUINOLINE	77	9
QUINOLINE	-292	2.6
REBURNED LIME		2.2
REFRACTORY (CAST)		6.7
REFRACTORY (FOR CASTING)		1.8 - 2.1
RESORCINOL		3.2
RESORCINOL		3.2
RESORCINOL		3.2
RICE		8-Mar
RICE		3.5
RICE (DRY)		3.5
RICE BRAN		1.4-2.0
ROUGE		1.5
ROUGE (JEWELERS)		1.5 - 1.6
RUBBER		3

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
RUBBER		3
RUBBER (CHLORINATED)		3
RUBBER (HARD)		2.8
RUBBER (ISOMERIZED)		2.4 - 3.7
RUBBER CEMENT		2.7-2.9
RUBBER CHLORIDE		2.1-2.7
RUBBER, RAW		2.1-2.7
RUBBER, SULPHURIZED		2.5-4.6
RUBY		11.3
RUTILE		6.7
RUTILE		8.6
RUTILE		6.6 - 7.5
SAFROL	21	3.1
SAFROL		3.1
SAFROL	70	3.1
SALICYLADEHYDE	20	13.9
SALICYLADEHYDE		13.9
SALICYLALDEHYDE	68	13.9
SALT		3.0 - 15.0
SAND		3-5.0
SAND (DRY)		5
SAND (SILICON DIOXIDE)		3 - 5.0
SANDS		3 - 5.0
SANTAWAX		2.29
SANTOWAX	21	2.29
SANTOWAX	70	2.3
SELENIUM		6.1-7.4
SELENIUM		5.4
SELENIUM		11
SELENIUM	482	5.4
SELEVIUM	249	5.4
SELINIUM		6.6
SELINIUM		11
SESAME		1.8-2.0
SHELLAC		2.0-3.8
SHELLAC		3.5
SHELLAC		3.5
SILICA ALUMINATE		2
SILICA SAND		2.5-3.5
SILICON		11.0 - 12.0
SILICON DIOXIDE		4.5
SILICON TETRACHLORIDE	16	2.4
SILICON TETRACHLORIDE		2.4
SILICON TETRACHLORIDE	60	2.4

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
SILICONE MOLDING COMPOUND(SMC)		
(SMC)(GLASS FIBER FILLED)		3.7
SILICONE OIL		2.2-2.9
SILICONE RESIN, LIQUID		3.5-5.0
SILICONE RUBBER		3.2-9.8
SILICONE VARNISH		2.8-3.3
SILK		2.5-3.5
SILVER BROMIDE		12.2
SILVER BROMIDE		12.2
SILVER BROMIDE		12.2
SILVER CHLORIDE		11.2
SILVER CHLORIDE		11.2
SILVER CHLORIDE		11.2
SILVER CYANIDE		5.6
SILVER CYANIDE		5.6
SILVER CYANIDE		5.6
SLAKED LIME, POWDER		2.0-3.5
SLATE		6.0-7.5
SLATE		7
SLATE		7
SMITHSONITE		9.3
SOAP POWDER		1.25-1.5
SOAP POWDERS		1.2 - 1.7
SODIUM CARBONATE		8.4
SODIUM CARBONATE		8.4
SODIUM CARBONATE		5.3
SODIUM CARBONATE (ANHYD)		8.4
SODIUM CARBONATE (10H20)		5.3
SODIUM CHLORIDE		5.9
SODIUM CHLORIDE		6.1
SODIUM CHLORIDE (SALT)		6.1
SODIUM CYANIDE		7.55
SODIUM DICHROMATE		2.9
SODIUM NITRATE		5.2
SODIUM NITRATE		5.2
SODIUM NITRATE		5.2
SODIUM OLEATE	20	2.7
SODIUM OLEATE		2.8

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
SODIUM OLEATE	68	2.7
SODIUM OLEATE		2.8
SODIUM OLEATE		2.8
SODIUM PERCHLORATE		5.4
SODIUM PERCHLORATE		5.4
SODIUM PHOSPHATE		1.6-1.9
SODIUM PORCHLORATE		5.4
SODIUM SULPHIDE		5
SOLIDS (AS SPECIFIED):		
SOLIDS (PACKED):		
SORBITOL		33.5
SORBITOL	176	33.5
SORIBTOL	80	33.5
SOY BEANS		2.8
STANNEC CHLORIDE	22	3.2
STANNEC CHLORIDE		3.2
STANNEC CHLORIDE	72	3.2
STARCH		5-Mar
STARCH, PASTE		1.7-1.8
STEARIC ACID	71	2.3
STEARIC ACID		2.3
STEARIC ACID	160	2.3
STEARINE		2.3
STEATITE		7-May
STEATITE		5.5 - 7.5
STYRENE		2.3-3.4
STYRENE	77	2.4
STYRENE (MODIFIED)		2.4 - 3.8
STYRENE (PHENYLETHANE)	25	2.4
STYRENE (PHENYLETHENE)		2.4
STYRENE RESIN		2.3-3.4
SUCCINAMIDE	22	2.4
SUCCINAMIDE		2.9
SUCCINAMIDE	72	2.9
SUCCINIC ACID	26	2.4
SUCCINIC ACID		2.4
SUCCINIC ACID	78	2.4
SUCROSE		3.3
SUCROSE		3.3
SUCROSE (MEAN)		3.3
SUGAR		3
SUGAR		3
SUGAR		3
SUGAR, GRANULATED		1.5-2.2
SULFUR		1.6 - 1.7
SULFUR DIOXIDE	-20	17.6
SULFUR DIOXIDE		17.6

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
SULFUR DIOXIDE	-4	17.6
SULFUR DIOXIDE	32	15
SULFUR MONOCHLORIDE	14	4.8
SULFUR MONOCHLORIDE		4.8
SULFUR MONOCHLORIDE	58	4.8
SULFUR TRIOXIDE	18	3.1
SULFUR TRIOXIDE		3.1
SULFUR TRIOXIDE	64	3.1
SULFUROUS OXYCHLORIDE	22	9.1
SULFUROUS OXYCHLORIDE		9.1
SULFUROUS OXYCHLORIDE	72	9.1
SULFURYL CHLORIDE	22	Oct-00
SULFURYL CHLORIDE		10
SULFURYL CHLORIDE	72	10
SULPHUR	399	3.4
SULPHUR		3.6-4.4
SULPHUR	244	3.5
SULPHUR	450	3.5
SULPHUR		4
SULPHUR		3.4
SULPHUR DIOXIDE	0	15.6
SULPHUR DIOXIDE		15.6
SULPHUR DIOXIDE	32	15.6
SULPHUR TRIOXIDE	21	3.6
SULPHUR TRIOXIDE		3.6
SULPHUR TRIOXIDE	70	3.6
SULPHUR, LIQUID		3.5
SULPHUR, POWDER		3.6
SULPHURIC ACID	20	84
SULPHURIC ACID		84
SULPHURIC ACID	68	84
SULPHURIC OCYCHLORIDE	22	9.2
SULPHURIC OXYCHLORIDE		9.2
SUPPHURIC OXYCHLORIDE	72	9.2
SYRUP		50-80
SYRUP WAX		2.5-2.9
TANTALUM OXIDE		11.6
TANTALUM OXIDE		11.6
TANTALUM OXIDE		11.6
TARTARIC ACID	20 C	6

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
TARTARIC ACID	14	35.9
TARTARIC ACID		6.0-36
TARTARIC ACID	68	6
TARTARIC ACID	58	35.9
TEFLON		2
TEFLON		2
TEFLON		2
TEFLON (4F)		2
TEFLON, FEP		2.1
TEFLON, PCTFE		2.3-2.8
TEFLON, PTFE		2
TEPINEOL		2.8
TERPINENE	21	2.7
TERPINENE		2.7
TERPINENE	70	2.7
TERPINEOL	20	2.8
TERPINEOL	72	2.8
TETRABROMIETHANE	20	7.1
TETRABROMIETHANE		7.1
TETRABROMOETHANE	72	7
TETRACARBOXYLATE	68	5.9
TETRACARBOXYLATE	66	5.2
TETRACARBOXYLATE	66	6
TETRACHLOROETHYLENE	21	2.5
TETRACHLOROETHYLENE		2.5
TETRACHLOROETHYLENE	70	2.5
TETRADECAMETHYL-TETRADECAMETHYLCYCLOHEPTASILOXAN		2.7
TETRADECAMETHYLEXOSILOXANE		2.5
TETRADECAMETHYLHEXOSILOXANE	68	2.5
TETRADECANOL	38	4.72
TETRADECANOL		4.7
TETRADECANOL	100	4.7
TETRAETHYL		
TETRAETHYL AMYLENETETRACARBOXYLA		4.4
TETRAETHYL HEXANE-1-PHENYL		
TETRAETHYL HEXANE-1-PHENYL		
TETRAETHYL PENTANE DIPHENYL		

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
TETRAETHYL PENTANE		
DIPHERYL		
TETRAETHYL PROPANE		
TETRAETHYL PROPANE		
TETRAETHYL PROPYLENE		
TETRAETHYL SILICATE	20	4.1
TETRAETHYL SILICATE		4.1
TETRAETHYL SILICATE	68	4.1
TETRAFLUOROETHYLENE		2
TETRAHYDRO-B-NAPHTHOL	20	11
TETRAHYDRO-B-NAPHTHOL		11
TETRAHYDRO-B-NAPTHOL	68	11
TETRANITRIMETHANE	20	2.2
TETRANITRIMETHONE		2.2
TETRANITROMETHANE	68	2.2
TETRATRIACONTADIENE	76	2.8
TETRATRIACONTODIENE		2.82
TETRATRIACOUTADIENE	24	2.82
TETROCARBOXYLATE	68	2.7
THALLIUM CHLORIDE		46.9
THALLIUM CHLORIDE		46.9
THALLIUM CHLORIDE		46.9
THINNER		3.7
THIOACETIC ACID	20	13
THIOACETIC ACID		13
THIOACETIC ACID	68	13
THIONYL BROMIDE	20	9.1
THIONYL BROMIDE		9.1
THIONYL BROMIDE	68	9.1
THIONYL CHLORIDE	20	9.3
THIONYL CHLORIDE		9.3
THIONYL CHLORIDE	68	9.3
THIOPHENE	20	2.8
THIOPHENE		2.8
THIOPHENE	60	2.8
THIOPHOSPHORYL CHLORIDE	21	5.8
THIOPHOSPHORYL CHLORIDE		5.8
THIOPHOSPHORYL CHLORIDE	70	5.8
THORIUM OXIDE		10.6
THORIUM OXIDE		10.6
THORIUM OXIDE		10.6

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
THRICHLOROETHYLENE	16	3.4
THUJONA		10
THUJONE	0	10
THUJONE	32	10
TIDE (LOOSE FROM BOX)		1.6
TIN TETRACHLORIDE	20	2.9
TIN TETRACHLORIDE		2.9
TIN TETRACHLORIDE	68	2.9
TITAMIUM TETRACHLORIDE	20	2.8
TITANIUM DIOXIDE		110
TITANIUM OXIDE		40-50
TITANIUM TETRACHLORIDE		2.8
TITANIUM TETRACHLORIDE	68	2.8
TOBACCO		1.6 - 1.7
TOBACCO DUST (6% MOISTURE)		1.7
TOLUENE	20	2.4
TOLUENE		2.4
TOLUENE	68	2.4
TOLUENE, LIQUID		2.0-2.4
TOLUIDINE	20	6
TOLUIDINE		6
TOLUNITRILE	23	18.8
TOLUNITRILE		18.8
TOLUNITRILE	73	18.8
TOLYL METHYL ETHER	20	3.5
TOLYL METHYL ETHER		3.5
TOLYL METHYL ETHER	68	3.5
TOTANA		5.5
TOTANE	44	5.5
TOTANE	111	5.5
TOURMALINE		6.3
TRANS-THREE-HEXENE		2
TRANS-3-HEXENE	24	2
TRANS-3-HEXENE	76	2
TRANSMISSION OIL	27	2.2
TRANSMISSION OIL		2.2
TRANSMISSION OIL	80	2.2
TRIBROMOPROPANE	20	6.4
TRIBROMOPROPANE		6.4
TRIBROMOPROPANE	68	6.4
TRIBUTYLPHOSPHATE	30	7.95
TRIBUTYLPHOSPHATE		7.9
TRIBUTYLPHOSPHATE	86	8
TRICHLORETHYLENE		3.4

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
TRICHLOROACETIC ACID	60	4.5
TRICHLOROACETIC ACID		4.5
TRICHLOROACETIC ACID	140	4.6
TRICHLOROETHANE		7.5
TRICHLOROETHYLENE	61	3.4
TRICHLOROLOLUENE	70	6.9
TRICHLOROPROPANE		2.4
TRICHLOROPROPANE	76	2.4
TRICHLOROTOLUENE	21	6.9
TRICHLOROXOLUENE		6.9
TRICOSANONE	79	4
TRICOSANONE	176	4
TRICRESYL PHOSPHATE	40	6.9
TRICRESYL PHOSPHATE		6.9
TRICRESYL PHOSPHATE	104	6.9
TRIETHYL ACONIATE	20	6.4
TRIETHYL ACONITATE		6.4
TRIETHYL ACONITATE	68	6.4
TRIETHYL ALUMINUM	20	2.9
TRIETHYL ALUMINUM		2.9
TRIETHYL ALUMINUM	68	2.9
TRIETHYL ETHANETRICARBOXYLATE		6.5
TRIETHYL ETHANETRICARBOXYLATE	66	6.5
TRIETHYL ISOACONITATE	20 C	7.2
TRIETHYL ISOACONITATE	68	7.2
TRIETHYL ISOACONITRATE		7.2
TRIETHYLAMINE	21	32
TRIETHYLAMINE		3.2
TRIETHYLAMINE	77	2.4
TRIFLUORACETIC ACID	20	39
TRIFLUOROACTIC ACID		39
TRIFLUOROACTIC ACID	68	39
TRIFLUOROTOLUENE	30	9.18
TRIFLUOROTOLUENE		9.1
TRIFLUOROTOLUENE	86	9.2
TRIMETHYL BORATE	20	8.2
TRIMETHYL BORATE		8.2
TRIMETHYL BORATE	68	8.2

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
TRIMETHYL-THREE-HEPTENE		2.2
TRIMETHYL-3-HEPTENE	20	2.2
TRIMETHYL-3-HEPTENE	68	2.2
TRIMETHYLAMINE	4	2.9
TRIMETHYLAMINE		2.9
TRIMETHYLAMINE	77	2.5
TRIMETHYLBENZENE	20	2.27
TRIMETHYLBENZENE		2.2
TRIMETHYLBENZENE	68	2.3
TRIMETHYLBUTANE	20	1.927
TRIMETHYLBUTANE		1.9
TRIMETHYLBUTANE	68	1.9
TRIMETHYLPENTANE	20	1.95
TRIMETHYLPENTANE		1.9
TRIMETHYLPENTANE	68	2.9
TRIMETHYLSULFANILIC ACID	18	89
TRIMETHYLSULFANILIC ACID		89
TRIMETHYLSULFANILIC ACID	64	89
TRINITROBENZENE	20	2.2
TRINITROBENZENE	68	2.2
TRINITROBENZINE		2.2
TRINITROTOLUENE	69	22
TRIOLEIN	24	3.2
TRIOLEIN		3.2
TRIOLEIN	76	3.2
TRIPHENYLEMETHANE		2.4
TRIPHENYLMETHANE	100	2.45
TRIPHENYLMETHANE	212	2.3
TRIPOLMITIN	60	2.92
TRIPOLMITIN		2.9
TRIPOLMITIN	140	2.9
TRISTEARIN	70	2.78
TRISTEARIN		2.7
TRISTEARIN	158	2.8
TURPENTINE (WOOD)	68	2.2
TWO-DICHLOROETHANE		10.7
UNDECANE	20	2.005
UNDECANE		2
UNDECANE	68	2
UNDECANONE	14	8.4
UNDECANONE	58	8.4
UNDECNONE		8.4
UREA	22	3.5
UREA		8-May
UREA	71	3.5

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
UREA		3.5
UREA		3.5
UREA	71	3.5
UREA FORMALDEHYDE (UF)		
(UF)(CELLULOSE FILLER)		6.4 - 6.9
UREA RESIN		6.2-9.5
URETHAN	121	14.2
URETHANE	23	3.2
URETHANE		6.5-7.1
URETHANE		3.2
URETHANE	74	3.2
URETHANE RESIN		6.5 - 7.1
VALERADEHYDE	14	11.8
VALERALDEHYDE		11.8
VALERALDEHYDE	58	11.8
VALERIC ACID	17	2.6
VALERIC ACID		2.6
VALERIC ACID	68	2.6
VALERONITRILE	21	17.7
VALERONITRILE		17.7
VALERONITRILE	70	17.7
VANADIUM OXYBROMIDE	26	3.6
VANADIUM OXYBROMIDE		3.6
VANADIUM OXYBROMIDE	78	3.6
VANADIUM OXYCHLORIDE	26	3.4
VANADIUM OXYCHLORIDE		3.4
VANADIUM OXYCHLORIDE	78	3.4
VANADIUM SULFIDE		3.1
VANADIUM TETRACHLORIDE	26	3
VANADIUM TETRACHLORIDE		3
VANADIUM TETRACHLORIDE	78	3
VASELINE		2.2-2.9
VERATROL	23	4.5
VERATROL		4.5
VERATROL	73	4.5
VINYL ALCOHOL RESIN		2.6-3.5
VINYL BUTYRAL		3.3 - 3.9

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
VINYL CHLORIDE (ACETATE)		3.0 - 3.1
VINYL CHLORIDE (FLEXIBLE)		3.5 - 4.5
VINYL CHLORIDE (RIDGIG)		2.8 - 3.0
VINYL CHLORIDE RESIN, HARD		5.8-6.4
VINYL CHLORIDE RESIN, SOFT		2.8-4.0
VINYL ETHER	20	3.9
VINYL ETHER		3.9
VINYL ETHER	68	3.9
VINYL FORMAL		3
VINYLLIDENE CHLORIDE		3.0 - 4.0
VYCOR GLASS		3.8
WATER	0	88
WATER	20	80
WATER	100	48
WATER		48-88
WATER	32	88
WATER	68	80.4
WATER	212	55.3
WATER	390	34.5
WATER	68	80
WATER (STEAM)	68	1.00785
WAX		2.4-6.5
WHEAT FLOUR		3.0 - 5.0
WHEAT FLOUR (DRY POWDER)		1.6
WHITE MICA		4.5-9.6
WOOD, DRY		6-Feb
WOOD, PRESSED BOARD		2.0-2.6
WOOD, WET		30-Oct
XYLENE	20	2.4
XYLENE		2.4
XYLENE, LIQUID		2.2-2.6
XYLENOL	17	
XYLENOL	62	3.9
XYLIDINE	20	5
XYLIDINE		5
XYLIDINE	68	5
ZINC OXIDE		1.7-2.5
ZINC SULFIDE		8.2
ZINC SULFIDE		8.2
ZINC SULFIDE		
ZIRCON		12
ZIRCONIUM OXIDE		12.5

Dielectric Constants
of Common Materials

MATERIALS	DEG. F	DIELECTRIC CONSTANT
ZIRCONIUM OXIDE		12.5
ZIRCONIUM OXIDE		12.5
ZIRCONIUM SILICATE		5
1, 2-DICHLOROETHANE	25	10.7
1-DIETHOXYETHANE	24	3.8
1-DIETHOXYETHANE		3.8
1-DIETHOXYETHANE	76	3.8
1-HEPTENE	68	2.1
1-0CTANOL	68	10.3
2-METHYL-1-PROPANOL	77	17.7
3 DIMETHYL-2-BUTANONE		13.1
3-CHLORO-1 DIHYDROXYPRONE	20	31
3-CHLORO-1 DIHYDROXYPRONE		31
3-CHLORO-1, DIHYDROXYPRONE	68	31
3-DIMETHYL-2-BUTANONE	293	13.1