

(Continued): Specifying an Explosion Resistant Electrical Enclosure

Class	Division	Group	Typical atmosphere/ignition temps.	Devices Covered	Temperature Measured	Limiting Value
I Gases Vapors	2 Not normally hazardous	A B C D	Same as Division 1 Same as Division 1 Same as Division 1 Same as Division 1 (Not normally hazardous means that the gases aren't normally present.)	Lamps resistors, coil etc., other than arcing devices (see Div. 1)	Max. internal or external temp. not to exceed the ignition temperature in degrees Celsius (°C) of the gas or vapor involved	See Sect. 500-2 of NEC
II Combustible dusts	1 Normally hazardous	E	Metal dust, including aluminum, magnesium, and their commercial alloys, and other metals of similarly hazardous characteristics.	Devices not subject to overloads (switches, meters).	Max. external temp. in 40C ambient with a dust blanket	No overload: E-200C (392F) F-200C (392F) G-165C (329F)
		F	Carbon black, coal, coke dust with more than 8% volatile material.	Devices subject to overload (motors, transformers)		Possible overload: E, F, G-120C (248F) but not to exceed no overload values at overload
G	Flour, starch, grain dusts.					
	2 Not normally hazardous	G	Same as Division 1	Lighting fixtures	Max. external temp. under conditions of use	Group: G-165C (329F)
III Easily ignitable fibers and flyings	1, 2			Lighting fixtures	Max. external temp. under conditions of use	165C (329F)

STANDARD PIPE DATA

NOMINAL PIPE SIZE	INSIDE DIAMETER (INCHES)	OUTSIDE DIAMETER (INCHES)	WEIGHT PIPE (LBS/FT)	LENGTH IN FEET CONTAINING ONE CUBIC FOOT	GALLONS IN ONE LINEAR FOOT	WEIGHT WATER (LBS/FT OF PIPE)
¼	.269	.405	.244	2526.000	.0030	.025
¼	.364	.540	.424	1383.800	.0054	.045
⅜	.493	.675	.567	754.360	.0099	.083
½	.622	.840	.850	473.910	.0158	.132
¾	.824	1.050	1.130	270.030	.0277	.231
1	1.049	1.315	1.678	166.620	.0449	.374
1¼	1.380	1.660	2.272	96.275	.0777	.648
1½	1.610	1.900	2.717	70.733	.1058	.882
2	2.067	2.375	3.652	49.913	.1743	1.453
2½	2.469	2.875	5.793	30.077	.2487	2.073
3	3.068	3.500	7.575	19.479	.3840	3.200
3½	3.548	4.000	9.109	14.565	.5136	4.280
4	4.026	4.500	10.790	11.312	.6613	5.510
5	5.047	5.563	14.617	7.198	1.0393	8.660
6	6.065	6.625	18.974	4.984	1.5008	12.510
8	7.981	8.625	28.551	2.878	2.5988	21.680
10	10.020	10.750	40.483	1.826	4.0963	34.100
12	12.000	12.750	49.560	1.274	5.9036	49.000
14	13.250	14.000	54.570	1.046	7.1928	59.700
16	15.250	16.000	62.580	.789	9.5301	79.100
18	17.250	18.000	70.590	.617	12.1928	101.200