

# Explosion Report

## Workspace: 72341-3InvioGN

### Study: Invio GN a metanodotto

### Equipment Item: 10R Bracci scarico GN

72341-3InvioGN\Invio GN a metanodotto\10R Bracci scarico GN

Material	<b>GAS NATURALE</b>	
East	0	m
North	0	m

### Scenario (Leak) : 60mm

72341-3InvioGN\Invio GN a metanodotto\10R Bracci scarico GN\60mm

### Weather: Category 2/F

Explosion location criterion	Cloud front (LFL fraction)	
Explosion height criterion	<b>Effect height</b>	
Explosion method	Multi-Energy: Uniform confined	
Uniform confined method explosion efficiency	<b>12,5</b>	%
Uniform confined method explosion strength	<b>4</b>	

Time of explosion [s]	Distance to centre of mass [m]	Distance to explosion centre [m]	Distance to ignition point [m]	Flammable mass [kg]	Overpressures (input) [bar]	Distance to specified overpressures [m]
0,276113	10,4241	10	10	3,33925	0,03	23,3117
					0,07	15,7077
					0,14	0
					0,3	0
					0,6	0
0,330446	11,1834	20	20	4,14305	0,03	34,304
					0,07	26,1331
					0,14	0
					0,3	0

					0,6	0
0,817656	16,97	30	30	10,5981	0,03	49,5626
					0,07	38,3879
					0,14	0
					0,3	0
					0,6	0
1,64904	22,5611	40	40	17,5867	0,03	63,1604
					0,07	49,9305
					0,14	0
					0,3	0
					0,6	0
3,10737	23,9232	50	50	18,9687	0,03	73,7518
					0,07	60,1841
					0,14	0
					0,3	0
					0,6	0
5,77137	23,9674	60	60	19,0108	0,03	83,7694
					0,07	70,1916
					0,14	0
					0,3	0
					0,6	0

## Weather: Category 5/D

Explosion location criterion	Cloud front (LFL fraction)	
Explosion height criterion	<b>Effect height</b>	
Explosion method	Multi-Energy: Uniform confined	
Uniform confined method explosion efficiency	<b>12,5</b>	%
Uniform confined method explosion strength	<b>4</b>	

Time of explosion [s]	Distance to centre of mass [m]	Distance to explosion centre [m]	Distance to ignition point [m]	Flammable mass [kg]	Overpressures (input) [bar]	Distance to specified overpressures [m]
0,276113	10,2286	10	10	3,2157	0,03 0,07 0,14 0,3 0,6	23,1455 15,6364 0 0 0
0,419646	12,3584	20	20	5,25016	0,03 0,07 0,14 0,3 0,6	35,479 26,6369 0 0 0
0,915009	17,7902	30	30	10,6557	0,03 0,07 0,14 0,3 0,6	49,598 38,4031 0 0 0
1,67073	20,9182	40	40	13,7408	0,03 0,07 0,14 0,3 0,6	61,3315 49,1463 0 0 0
2,84663	21,1664	50	50	13,9188	0,03 0,07 0,14 0,3	71,4232 59,1856 0 0

					0,6	0
4,98799	21,1704	60	60	13,8899	0,03	81,4084
					0,07	69,1793
					0,14	0
					0,3	0
					0,6	0

