

## 13.0 Blasting Data

**13.1 Table 1 Approximate Air Consumption (CFM) Per Blast Nozzle**

NOZZLE SIZE		NOZZLE PRESSURE						
		60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi
No.2	1/8"	14	16	18	20	22	26	30
No.3	3/16"	32	36	41	45	49	58	66
No.4	1/4"	57	65	72	80	90	105	121
No.5	5/16"	90	101	113	125	140	160	185
No.6	3/8"	126	145	163	182	200	235	270
No.7	7/16"	170	193	215	240	270	315	360
No.8	1/2"	230	260	290	320	350	410	470
No.10	5/8"	360	406	454	500	550	640	740
No.12	3/4"	518	585	652	720	790	925	1060

**13.2 Table 2 Abrasive Consumption (lbs. per hour) Per Blast Nozzle**

NOZZLE SIZE		NOZZLE PRESSURE						
		60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi
No.2	1/8"	90	105	115	130	140	165	190
No.3	3/16"	205	230	260	290	320	375	430
No.4	1/4"	365	420	460	500	560	660	760
No.5	5/16"	575	650	725	825	900	1050	1200
No.6	3/8"	840	945	1050	1155	1260	1475	1700
No.7	7/16"	1150	1300	1450	1600	1750	2050	2350
No.8	1/2"	1460	1660	1850	2000	2250	2650	3000
No.10	5/8"	2290	2600	2900	3125	3520	4100	4750
No.12	3/4"	3300	3750	4180	4500	5060	5950	6800

**13.3 Table 3 Hose Selection Guide (blasting @ 100 Psi)**

NOZZLE SIZE	No.4 1/4"	No.5 5/16"	No.6 3/8"	No.7 7/16"	No.8 1/2"
CFM @ 100psi	90	140	200	270	350
AIR HOSE	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"
BLAST HOSE	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
ABRASIVE (lbs per hr)	560	900	1260	1750	2250

**13.4 Additional Information on Blasting Productivity**

Air volume and pressure are very important. The blasting production rate will increase with higher blasting pressures and decrease with lower blasting pressures. The National Association of Corrosion Engineers' data suggests that for each 1 psi reduction in nozzle pressure, there is a 1.5% production loss. Pressure drop through a Schmidt® blast unit is normally less than 1 psi, while blast units manufactured by some of our competitors have pressure losses as high as 12 psi resulting in an 18% loss of production. Air pressure loss can also be avoided by using the shortest possible hose of adequate size. The inside diameter of both the blast hose (other than whip hose) and the air hose should be approximately three times the diameter of the orifice in the blast nozzle.

Standard Schmidt blast units are rated for a maximum pressure of 125 psi or 150 psi. Refer to the pressure vessel nameplate for maximum operating pressure.