



TOTAL PRODUCT FLOW RATE FOR VARIOUS SOIL INJECTION APPLICATORS

Determining the rate of flow using Yellow or Red Hose, without a flow meter.

To calculate the flow rate yourself, use the equation:

$$\text{oz/min/tube} = (\text{GPA} \times \text{MPH} \times W^*/5940) \times 128$$

*Shank-to-shank width in inches

How to use this chart:

1. Before calibration, refer to the product label and follow PPE guidelines.
2. Find your plow share width or shank spacing.
3. Find your actual speed of implement while in operation.
4. Locate your desired rate along with the correct color hose.
5. Where these intersect (speed and rate), is the amount you should catch from each tube in one minute.
6. Locate the Pressure Chart and find the PSI setting to deliver the desired amount just calculated.
7. Catch the flow from each tube to verify the rate.
 - a. The Pressure Chart gives an indication of where to set the pressure gauge to give the desired flow rate. Catch the flow to verify the rate. Adjust the PSI gauge as necessary to get the target flow rate.
 - b. All hoses going from manifold to the foot pieces and manifold to the pressure gauge must be 15 feet long, to ensure accuracy.
 - c. For TELONE II only: Site glass containing Delrin balls will not float at less than 10.5 oz/min flow.
 - d. For TELONE + Chloropicrin blends only: Site glass containing Teflon balls will not float at less than 10.5 oz/min flow. Please note: TELONE + Chloropicrin blends will destroy Delrin balls; ONLY use Teflon.

**This chart is an example of a supplier; check your local supplier

PLOW SHARE WIDTH OR SHANK SPACING	SPEED (MPH)	DESIRED RATE (gallons per acre)		
		3	4.5	6
TELONE oz/min				
16	4.50		7.0	9.3
16	5.00		7.8	10.4
16	5.50		8.5	11.4
16	6.00		9.3	12.4
16	6.50		10.1	13.5
TELONE oz/min				
18	4.50		7.9	10.5
18	5.00		8.7	11.7
18	5.50		9.6	12.8
18	6.00	7.0	10.5	14.0
18	6.50	7.5	11.3	15.1
TELONE oz/min				
36	4.50	10.5	15.7	20.9
36	5.00	11.7	17.5	23.3
36	5.50	12.8	19.2	25.6
36	6.00	14.0	20.9	27.9
36	6.50	15.1	22.7	30.2
TELONE oz/min				
38	4.50	11.1	16.6	22.1
38	5.00	12.3	18.4	24.6
38	5.50	13.5	20.3	27.0
38	6.00	14.8	22.1	29.5
38	6.50	16.0	24.0	

Pressure Chart ^a		
Yellow Tubing 15 feet ^b		
PSI	TELONE oz/min ^c	Water Line oz/min
10	7.0	7.8
15	8.7	9.7
20	10.1	11.2
25	11.0	12.2
30	12.5	14.0
35	13.9	15.6
40	15.5	17.2
45	16.4	18.2
Minimal flow is gained in going above 45 PSI		
Red Tubing 15 Feet ^b		
Flow is variable when PSI is below 15 PSI		
15	16.22	18.0
20	18.92	21.0
25	21.62	24.0
30	24.77	27.5
35	26.13	29.0
40	28.38	31.5
45	30.45	33.8
50	31.35	34.8

Color Hose	Supplier**	Part Number
Yellow Hose	Chemical Containers, Inc.	HZ940Y
Red Hose	Chemical Containers, Inc.	HZ940RED