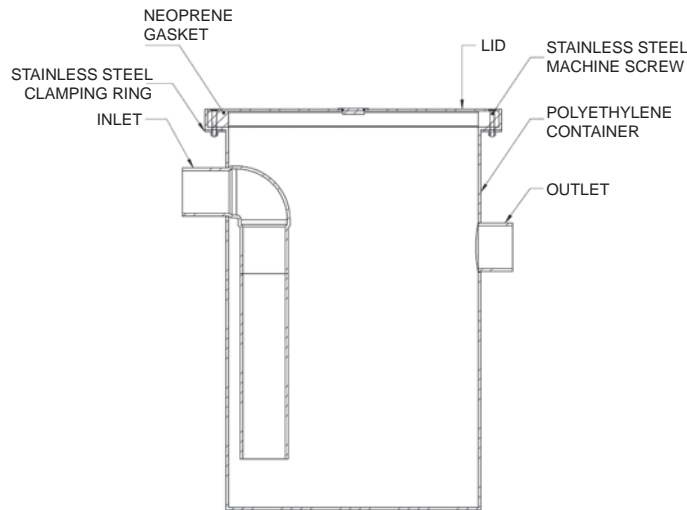


MI-NEUT ACID NEUTRALIZATION TANKS

Function: The MIFAB Series of MI-NEUT acid neutralization tanks are engineered to intercept and then dilute and neutralize hazardous chemicals before discharging them into the public drainage system.

The incoming wastewater is directed through the inlet into the bottom of the MI-NEUT acid neutralization tank. The wastewater passes through limestone chips inside of the tank as it flows to the outlet. The calcium carbonate in the limestone chips reacts with the acids in the wastewater to form harmless neutral salts, water and carbon dioxide. The neutralized salts are transformed into sludge and settle to the bottom of the tank. Carbon dioxide gas mixes with water to form carbonic acid, which helps neutralize alkaline wastes. The water helps to dilute the acidic, alkaline and solvent wastes. The wastewater, now neutralized, flows through the outlet and into the public drainage system.



Sizing: Local and National Plumbing Codes have different ways of sizing acid neutralization tanks. It is recommended to consult with the Code Officials in your area for their sizing requirements. The most common sizing method is to calculate the number of laboratory sinks draining into the acid neutralization tank and then choosing a corresponding acid neutralization tank to handle the flow from these sinks. (see Sizing Table below)

Number of Laboratory Sinks	2	4	8	16	22	27	30	40	50	60	75	110	150	175	200	300	500	600
Acid Neutralization Tank Size in Gallon Capacity	5	15	30	55	75	90	108	150	175	200	275	360	500	550	650	1200	2000	3000
(in Litres Capacity)	18.90	56.80	113.60	208.20	283.90	340.70	408.80	567.80	662.40	757.00	1040.90	1362.60	1898.50	2081.80	2460.30	4542.00	7570.00	11355.00

Note: For commercial and industrial laboratories, the number of laboratory sinks should be multiplied by a .50 use factor.

Limestone Chips:

Limestone chips used with acid neutralization tanks must be 1" - 3" in diameter and must contain a high calcium carbonate content greater than 90%. See the accompanying table to determine the correct amount of limestone chips needed for each MI-NEUT acid neutralization tank. This table provides the approximate amount needed for a charge (one filling). Replacement limestone chips will be required as determined by the use of the tank.

Acid Neutralization Tank Maintenance:

A regular maintenance program (replacement of the limestone chips) of one to three months is recommended. More frequent maintenance may be required depending on the volume of wastewater and amount of chemicals in the wastewater. If a regular maintenance program is not performed, the efficiency of the acid neutralization tank will suffer.

Note: Limestone chips are not included in the MI-NEUT acid neutralization tank pricing on page 22.

\$84.00 is the List Price for a 50 lb. bag of limestone chips. Model Number is MI-LSC.

MIFAB MODEL #	Approximate Amount of Limestone Chips (Lbs.)
MI-NEUT-5	50 Lbs.
MI-NEUT-15	100 Lbs.
MI-NEUT-30	200 Lbs.
MI-NEUT-55	500 Lbs.
MI-NEUT-100	1,000 Lbs.
MI-NEUT-150	1,750 Lbs.
MI-NEUT-175	2,100 Lbs.
MI-NEUT-200	2,500 Lbs.
MI-NEUT-275	3,200 Lbs.
MI-NEUT-300	3,600 Lbs.
MI-NEUT-350	4,000 Lbs.
MI-NEUT-500	5,000 Lbs.
MI-NEUT-550	5,500 Lbs.
MI-NEUT-650	6,500 Lbs.
MI-NEUT-700	7,000 Lbs.
MI-NEUT-800	8,000 Lbs.
MI-NEUT-1000	10,000 Lbs.
MI-NEUT-1200	12,000 Lbs.
MI-NEUT-1500	15,000 Lbs.
MI-NEUT-2000	20,000 Lbs.
MI-NEUT-3000	30,000 Lbs.