

CESCO Magnetics

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Serving the Food Industry
since 1946

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WHAT'S THE STRENGTH OF YOUR MAGNET?

HACCP requires your magnet's strength be verified. There are two ways to measure strength, either with a pull tester or with a gauss meter. When shipped, CESCO recorded every flat plate magnet's gauss reading and these records go back 30 years and more. We recommend using a gauss meter for its simplicity. A gauss meter is a electronic instrument that measures the number of lines of magnetic flux emanating from a magnet. A gauss is the number of lines of magnetic flux per square centimeter. If the magnets in your unit have not been broken and have not been exposed to extreme temperatures, then current gauss measurements should be closely approximate the original readings. Modern permanent magnetic materials loose their strength at the rate of only ½ of 1% every 100 years. You can use the following as typical gauss reading:

MAGTRAPS

Flat plate magnets (Models 104, 105, 120) w/ ceramic magnets	= 1400+ gauss
Flat plate magnets (Models 105, 120, 125) w/ rare earth magnets	= 4500-6000 gauss
Finger magnets (Model 130) w/ ceramic magnets	= 1800 gauss
Finger magnet (Model 130, 135, 135EC, 170) w/ rare earth magnets	= 4000-9000 gauss

MAGNETIC GRATES

With ceramic magnets	= 1800+ gauss
With rare earth magnets	= 4000-8000 gauss

MAGNETIC PLATES

Magnetic Plates readings vary from 1000 gauss to 6000 gauss depending upon their size, arrangement and the magnetic materials used.

YOU CAN MEASURE YOUR MAGNET'S STRENGTH

Should you wish to do your own measuring, we offer a gauss meter. To take a gauss reading, place the probe at the point of maximum magnetic strength, move it around slightly until you find the highest gauss reading. Note the reading and make note of where on the magnetic unit you took this measurement to assist those who may take later measurements. It's that simple!

WE CAN MEASURE YOUR MAGNET'S STRENGTH

CESCO does not charge for taking gauss readings. We provide a certification sheet with the current gauss reading (and its initial gauss reading, if available). If desired, we provide an analysis of the unit and indicate what might be done to provide longer operational life. The cost of transportation back and forth is the only cost to the customer. You do not need to send the whole unit, just the magnetic element. Just be sure to include your name and address as well as a note telling us what you would like done. Be sure to package it securely. If the magnetic element is not separated from the walls of the carton, it can hold onto conveyors, shelving, and anything made of steel.

WE CAN PROVIDE YOU WITH MAGNETIC INFORMATION

If you provide us with the serial number stamped on your CESCO unit, we will provide you its actual gauss reading at time of shipment or a close approximation.

Call us, and we will do our best to assist you.