

# MAC PANEL COMPUTER TAPE WITH **MAGNE-FLO** COATING ASSURES A UNIFORMLY CONSISTENT SIGNAL OUTPUT

Years of research have gone into the development of a magnetic computer tape with physical and magnetic properties second to none.

MAC Panel Computer Tape is made with an improved oxide formulation that guarantees all of the critical characteristics of magnetic tape to be used for precision computer applications. This unique formulation is a combination of proven elements that insure the presence and retention of the most critical magnetic properties as well as the three prime physical characteristics: permanent coating adhesion. . . hard shell toughness. . . and flexibility under all conditions.

A significant result of MAC Panel's research has been an improved gravure coating technique called "Magne-Flo" coating. Just one of the benefits of this major new production technique is a uniform oxide coating thickness throughout the entire tape width and length. This means an assured uniformity of signal response from channel to channel, from reel to reel.

Particle orientation is accomplished while the coating is still fluid to insure the highest magnetic efficiency, and a "four zone" drying process stabilizes the coating evenness to close tolerances established by exhaustive laboratory tests. The finishing stage further guarantees a smooth, hard, defect-free surface.

The entire manufacturing process—the improved gravure coating method, ultrasonic cleaning at two stages of production and precise slitting that assures clean-edged accurate tape widths—is all done in MAC Panel's own modern, specially constructed building with super-sensitive temperature and humidity controls.

Pre-production and final testing phases far exceed the normal criterion for attention to detail.

Every element used in the oxide formulation is thoroughly tested before and after blending. The oxides are repeatedly checked for magnetic properties and particle size distribution. Also, all production equipment is "white-glove" inspected before each run.

For final testing, every reel moves into a fully equipped testing laboratory where it is thoroughly tested. The most advanced testing equipment available is used to detect any dropout causing imperfection. Signal tests, noise tests, tape width measurements, skew and friction reading, stress-strain curve measurements, coating stress tests and many other tests are performed on special and general purpose electronic equipment.

This rigorous testing program insures the quality of MAC Panel Computer Tape and assures the tape user that every reel received is in perfect condition.

Tape that passes final inspection is degaussed and placed in thoroughly cleaned plastic canisters. Each canister is then placed in a hermetically sealed plastic envelope to prevent any seepage of dust and other impurities.

The entire unit finally goes into a specially designed corrugated package.

This rugged package, designed to absorb shock during transit, also features a tape packaging innovation, the "handy-handle" that provides carrying convenience.

