

# ACME Magnetic Foils

## Technical Data For LM12-2750

### General Characteristics

Base film material	Polyester
Magnetic layer material	Iron Oxide
Color	Black
Film/Coating adhesion	> 4N

### Thickness Characteristics

Base film Thickness	$11.5 \pm 0.5 \mu\text{m}$
Magnetic layer thickness	$10 \begin{matrix} + 0 \mu\text{m} \\ - 3 \mu\text{m} \end{matrix}$

### Magnetic Characteristics

Coercivity Hc	219kA/m (2750 Oe)
Retentivity Mr	$\geq 110\text{mT}$
Squareness	$\geq 0.8$
Switching field SFD	$\geq 0.35$
Orientation factor	> 2.0

### Signal Amplitude Characteristics

Signal amplitude UA1	$110/120 \pm 10 \% U_R$
Signal amplitude Ui1	$\leq 136 \% U_R$
Signal amplitude UA2	$\geq 80 \% U_R$
Signal amplitude Ui2	$\geq 65 \% U_R$
Resolution UA3	$\geq 72 \% U_{A2}$
Erasure UA4	$\leq 3 \%$
Extra pulse Ui4	$\leq 5 \%$

### Wear Resistance Characteristics

According to ISO/IEC7811-2/10373-1

Average signal amplitude UA after	$\geq 60 \% U_A \text{ before}$
Individual signal amplitude Ui after	$\geq 80 \% U_A \text{ after}$

### Chemical Resistance Characteristics

According to ISO/IEC 7811-2/10373-1

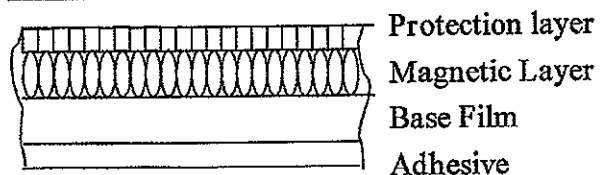
Average signal amplitude UA after	$\geq 90 \% U_A \text{ before}$
Individual signal amplitude Ui after	$\geq 90 \% U_A \text{ after}$

### Storage Conditions

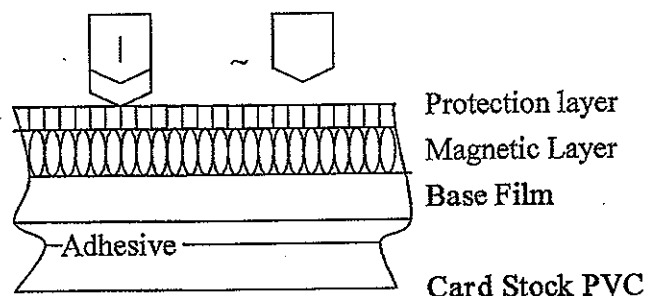
For tape with adhesive:

The allowed storage period for the reel is 3 years at	
temperature	$10^\circ\text{C} - 35^\circ\text{C}$
humidity	$40\% - 60\% \text{ RH}$

### Film - Coating Composite



### Tape Laying Process



### Saturation Curve

Readback Voltage - Calibration in %

