

# Graham Certified LTO 1, LTO 2, LTO 3

## Graham Certified LTO 1, LTO 2, LTO 3

- Lowest single-track error rates
- Exceed industry standards for quality
- Guaranteed for 10 years
- Green quality you can depend on

## Graham Certified

Graham Magnetics calls our process "Graham Certified," not reworked, not re-manufactured, not reconditioned, or any other names you may hear. As the only tape manufacturer that also offers a full line of Graham Certified media, we take the same great care and pride in our offerings of Graham Certified Media as we have historically been well known for in our new Graham Magnetics brand of products.

## Quality Certified

We test every tape full length, on production drives to atleast equivalent to ANSI Standards for new media. We are so confident in our testing process that all of our Graham Certified media is marked with the Graham Quality trademark.

## Environment

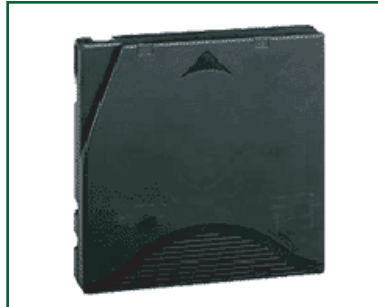
From an environmental standpoint, Graham Magnetics is proud to extend these products life and save our landfills from mountains of discarded, but viable, media. Graham developed this Graham Certification program as a way to recycle media to comply with various Government Green Procurement Regulations for the use of post-consumer materials.

## Labeled and Initialized Media

All Graham Certified LTO 1, LTO 2, and LTO 3 cartridges can be labeled and initialized at the time of purchase to work immediately with most popular operating systems. Performing this necessary step in the factory off-line, saves your data center both time and money.

## Characteristics of Graham Certified Media

- Usable used media, no longer needed
- All existing serial and library labels removed



- Each tape is physically inspected to assure performance characteristics are not compromised
- Each individual tape is Graham Certified with a binary test to assure high quality performance per our published specifications. These are at least equivalent to ANSI standards.
- Tapes that do not pass the rigorous Graham Magnetics requirements of physical and performance standards are degaussed and destroyed
- All Graham Certified Media is packaged to provide the same shipping protection and appearance as new
- Each Graham Certified tape from Graham Magnetics is date stamped when tested

When a tape passes the Graham quality standards, we mark it with our Quality Trademark. It is guaranteed for 10 years from that date.

## Graham Quality Trademark

## Graham Certified 18506

## Results

Using our Graham Certified cartridges saves customers significantly on media purchases, and since each cartridge is tested for damage as well as error activity, Graham Certified media is often reported to run 'better than new'. The only difference, beside the cost savings, a data center will notice is a likely decrease in tape related problems.

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## Graham Certified LTO 1, LTO 2, and LTO 3 Cartridges

### Specifications

	LTO 1	LTO 2	LTO 3
<b>Capacity</b>			
Uncompressed, nominal	100 GB	200 GB	400 GB
Tracks	384	512	704
Servo Track	factory prerecorded, do not degauss	factory prerecorded, do not degauss	factory prerecorded, do not degauss
Estimated Archive Life	30 Years	30 Years	30 Years
<b>Physical Properties</b>			
Length, nominal [feet]	1,998 feet	1,998 feet	2,230 feet
Width, nominal (+ 0.01 inches)	0.498	0.498	0.498
Thickness, nominal			
Overall (μ inches)	0.35	0.35	0.31
<b>Case Properties</b>			
Width * Length * Height inches	4.15 x 4.02 x 0.85	4.15 x 4.02 x 0.85	4.15 x 4.02 x 0.85
<b>Operating Properties</b>			
Uncorrected Errors	1 x 10 <sup>-17</sup>	1 x 10 <sup>-17</sup>	1 x 10 <sup>-17</sup>
Permanent Errors	0	0	0
<b>General Properties</b>			
Metal Particle	Metal Particle	Metal Particle	Metal Particle
Base Material	Polyethylene Naphthalate (PEN)	(PEN)	(PEN)
Coercivity (B - H), nominal	1750 Oersteds	1750 Oersteds	2250 Oersteds
<b>Environmental Conditions, nominal</b>			
Temperature - Operating	50° - 113°F (10°-45°C)	50° - 113°F (10°-45°C)	50° - 113°F (10°-45°C)
Temperature - Archival	41° - 73°F ( 5° - 23°C)	41° - 73°F ( 5° - 23°C)	41° - 73°F ( 5° - 23°C)
Relative Humidity % - Operating	10 - 80% RH	10 - 80% RH	10 - 80% RH
Relative Humidity % - Archival	20 - 60% RH	20 - 60% RH	20 - 60% RH
<b>Warranty for Graham Certified Cartridges from Graham Magnetics</b>			
Warranty	10 years	10 years	10 years

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WARRANTY: Graham Magnetics warrants to the initial end-user purchaser that Graham Certified Tape Cartridges are and shall remain free from manufacturing defects under normal use for the period of time defined above. If this product fails to meet Graham Magnetics' published specifications during this warranty period, Graham Magnetics' sole liability and the purchaser's exclusive remedy shall be replacement of the product upon receipt by Graham Magnetics of the defective product. This warranty is made in lieu of all other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Neither Graham Magnetics nor anyone else who has been involved in the sale or delivery of this product shall be liable for any direct, indirect, incidental, special or consequential damages (including damages for loss of profits, revenues, or business and the like) in any way related to the use of this product, even if Graham Magnetics has been informed of the possibilities of such damages. The foregoing language cannot be waived, modified, or supplemented in any manner whatsoever except in writing, signed by authorized officers of Graham Magnetics. This warranty gives you specific legal rights, and you may have other rights that vary from state to state and from country to country.