

QUANTUM CL/XL

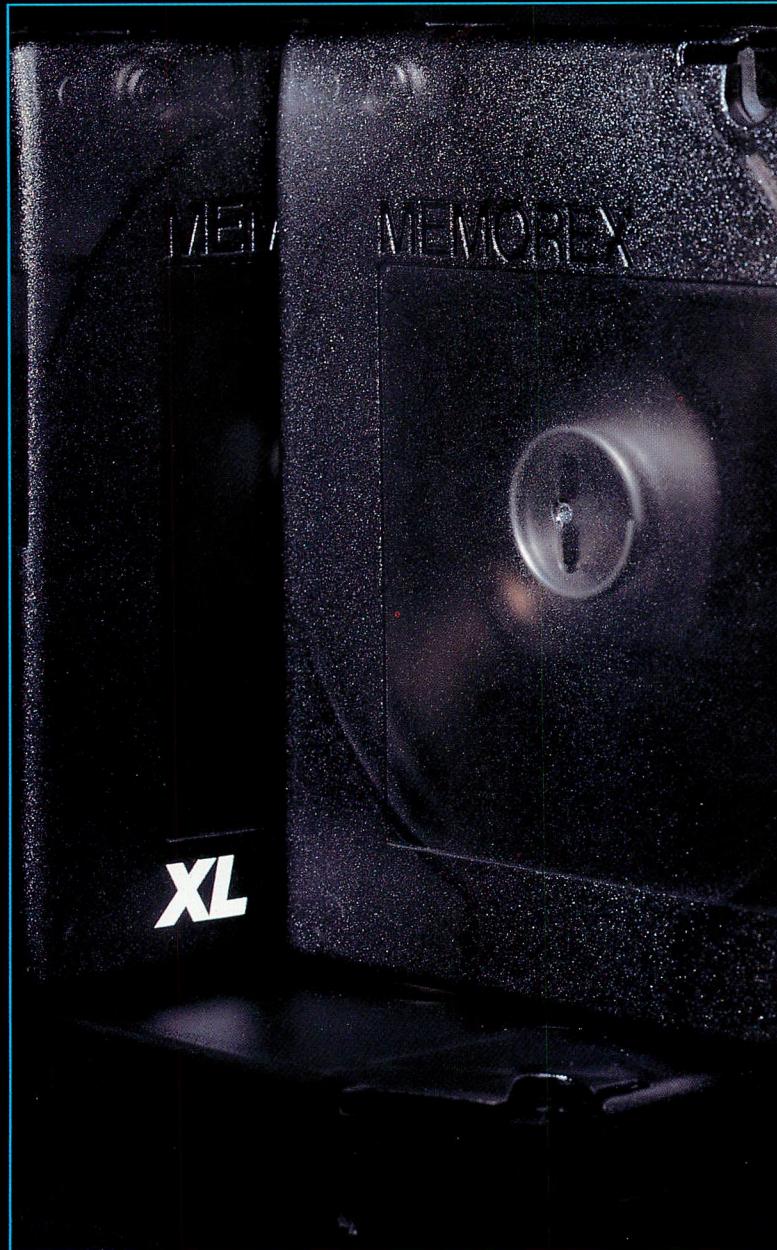
COMPUTER TAPE CARTRIDGE SPECIFICATIONS

DURABILITY FROM THE INSIDE OUT

Each Quantum cartridge delivers outstanding durability. Inside, our media is processed to such exacting standards that you can expect zero permanent read error and zero permanent write error performance. Outside, our virtually unbreakable polycarbonate shell provides protection from environmental extremes and operational stresses. What's more, we follow IBM practices and recommendations in every key area of manufacture and design. Our formulation chemistry with its superior binder stability, as well as our recording performance characteristics, assures compatibility with future high density recording devices.

A QUARTER- CENTURY WARRANTY

We 100% test every Memorex Quantum CL/XL cartridge on IBM 3480 or compatible drives to ensure the highest product quality and performance. That's why we are able to offer a full 25-year limited warranty on all materials and workmanship. You not only get unsurpassed performance, you get it guaranteed.



LONGER LENGTH— INCREASED STORAGE

Our Memorex Quantum XL cartridge features an extra-long 655 feet of tape to give you a significant increase in storage capacities over standard cartridge formats (250 MB using

32K block sizes). So you not only get greater capacities, but can also maximize library space and reduce cartridge mounts on your drive.

THE ULTIMATE TAPE IN AN UNMATCHED FORMAT

From the leaders in tape technology comes the standard by which all other $1/2"$ tape cartridges are measured: Memorex Quantum CL and Quantum XL. Both are designed for use with IBM 3480, Memorex 5480 and other compatible tape subsystems. And both provide unmatched performance and capability, in either 575 feet or our extra-long 655-foot format.

CERTIFIED AT 30% SIGNAL REMAINING

Memorex Quantum CL and Quantum XL combine maximum recording density with certification at high error thresholds to provide superior storage and retrieval characteristics. Our advanced formulation and processes ensure excellent error performance at 30% signal remaining—20% higher than the industry standard. The result is the highest quality cartridge available: zero multi-track dropouts, and 40/50 maximum single track dropouts on our CL/XL versions.

THE COMPUTER HISTORY MUSEUM



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MEMOREX®

QUANTUM CL/XL

COMPUTER TAPE CARTRIDGE SPECIFICATIONS

Memorex Quantum CL/XL data cartridges meet or exceed all ANSI, IBM, ISO and ECMA specifications.

Physical Characteristics

Base Film Material: Bi-axialy oriented polyethylene terephthalate
Base Film Thickness: 23.4 μm (0.92 mils) nominal
Total Thickness: Between 25.9 and 33.7 μm (1.020 and 1.330 mils)
Tape Width: 12.65 mm \pm 0.025 mm (0.4980 \pm 0.0010 inches)
Tape Length: Standard: 175m \pm 3.0m (575' \pm 10')
Long Length: 200m \pm 3.0m (655' \pm 10')
Splices: None
Longitudinal Curvature: 3.8mm maximum (0.150 inches)
Cupping: 0.3mm maximum (0.0118 inches)
Toxicity: Non-Toxic
Tape Abrasivity: 0.056mm maximum (0.0022 inches)
Tracks: 18 Tracks

Magnetic Properties

Magnetic Particle: Chromium Dioxide
Coating Electrical Resistance: 0.1×10^6 to 500×10^6
Coercivity: 41.4 ± 2.4 kA/m (520 \pm 30 Oe)

Performance Characteristics

Recording Density: 1491 cpmm (37871 cpi)
Narrow-Band Signal-to-Noise Ratio: \geq 30db
Broad-Band Signal-to-Noise Ratio: \geq 36db
Dropout Signal Remaining: 30% S.R.
Average Dropout Rate: <1 per 70×10^6 Flux Changes
Model: 140DC1W
Length: 575'
Maximum Single Track Errors/Cartridge: 40
Multi-Track Errors/Cartridge: 0
Model: 140GC1W
Length: 655'
Maximum Single Track Errors/Cartridge: 50
Multi-Track Errors/Cartridge: 0

Environmental Characteristics

Temperature
Operation: 16°C to 32°C (61°F to 90°F)*
Storage: 5°C to 32°C (40°F to 90°F)
Transportation
Unrecorded Cartridge: -23°C to +48°C (-9°F to +120°F)
Recorded Cartridge: 5°C to 32°C (40°F to 90°F)

Relative Humidity
(No Condensation Permitted)

Operation: 20% to 80%*
Storage: 5% to 80%

Transportation
Unrecorded Cartridge: 5% to 100%
Recorded Cartridge: 5% to 80%

Maximum Wet Bulb
Operation: 25°C (78°F)
Storage: 26°C (80°F)
Transportation: 26°C (80°F)

*If the cartridge has been exposed to conditions outside of the normal operating environments listed above, it should be stabilized under the stated operating conditions for at least 24 hours prior to use.



MEMOREX®
COMPUTER SUPPLIES

1200 Memorex Drive
Santa Clara, CA 95050-2869
1-800-CALL-MRX

MEMOREX QUANTUM CL/XL COMPUTER TAPE CARTRIDGE WARRANTY

Memorex Corporation has verified the performance of each computer tape cartridge and warrants that it is free from defects in material and workmanship for a period of

TWENTY-FIVE YEARS

from the date of purchase. Memorex Corporation shall not be responsible for damage from neglect, ordinary wear and tear, misuse, improperly adjusted or maintained tape drives or ancillary equipment, or incorrect environments.

Cartridges thought to be defective should be reported to Memorex Corporation. Memorex Corporation will test the cartridge, and if found to be defective, it will be replaced with an equivalent cartridge at no cost to the purchaser.

THE FOREGOING WARRANTY IS IN LIEU OF ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. EXCEPT AS STATED ABOVE, MEMOREX CORPORATION WILL NOT BE LIABLE FOR DAMAGES ARISING OUT OF USE OF THE CARTRIDGE INCLUDING, WITHOUT LIMITATION, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR BOTH.