

Requested by IVG COLBACHINI SpA
Via Fossona 77
35030 Cervarese S.Crice, Padova - ITALIA

Order June 19th 1997

Handled by Pier Luigi Cerado

Sample Marine hose type ETNA/MK9

Task Approval tests according to Nordic Boat Standard, MK9

Espoo, August 13th 1997

Senior research scientist


Lisbeth Ahjopalo

Research engineer


Karl Holmström

APPENDICES 2 pc. tensile test results.

DISTRIBUTION IVG COLBACHINI SpA
Via Fossona 77
35030 Cervarese S.Crice, Padova - ITALIA
(Fax +49/9997397)

AB TEXAN, Finn Holm
Traneredsvägen 114
S-42653 Västra Frölunda, Sverige
(Fax +031/298264)

Test Results

Test samples of ETNA/MK9 lining- / cover-rubber were heat aged in a laboratory oven at a temperature of 100°C for 70 hours according to ISO 188-1982 standard. Tensile properties of the aged and unaged samples were measured according to ISO 37-1977. Hardness was measured according to ISO 48-1979.

ETNA MK9 cover/lining	Unaged	Heat aged	Change
Tensile strength	11.7 ± 1.8 MPa	12.6 ± 0.3 MPa	+ 8 %
Elongation at break	640 ± 50 %	600 ± 20 %	- 6 %
Hardness (IRH°)	55 ± 1	61 ± 1	+ 11 %

Test samples cut out of ETNA MK9 hose were tested according to SS162222 standard to obtain the burning rate. After removing the bunsen burner the test samples burned for 2 seconds, thus the burning rate is 3 according to SS162222 paragraph 7.

ETNA MK9 hose fulfilled the requirements of Nordic Boat Standard / MK9 /V 1990-03-09

Tensile- and hardness tests were carried out by Karl Holmström during August 4 - 12 1997, burning rate test was carried out by Tuula Ylä-Sukava on July 30th 1997.

The use of the name of VTT in advertising or publication of this report in part is possible only by written permission from VTT.

