

# ALFA ITALY SUPERTUFF: Top-level abrasion resistance



SUPERTUFF is a special cover for hydraulic hose, which dramatically increases resistance to environmental and severe application damages.

Due to its excellent water, ozone and UV resistance, SUPERTUFF cover is highly recommended for all Marine and Underwater applications, where the hose life is endangered by environmental conditions.



## Features

- ◆ **Excellent abrasion resistance** (500 times higher than standard hoses)
- ◆ **No need** for any **protective sleeve** in applications requiring high abrasion resistance
- ◆ **UV and ozone resistance** (hose ageing reduction)

## Applications

- ◆ **Mining and earth-moving machines** (SUPERTUFF is abrasion resistant)
- ◆ **Machineries for forestry** (SUPERTUFF is resistant to impact-caused damage)
- ◆ **Offshore applications** (SUPERTUFF is ozone and UV resistant)
- ◆ **Underwater applications** (SUPERTUFF is water resistant and non- absorbing)
- ◆ **Machineries for chemical plants** (SUPERTUFF is resistant to most of the chemical agents)

Tests run according EN-ISO, DIN and SAE specs show that SUPERTUFF can guarantee performances, highly superior to the standard.

Furthermore, SUPERTUFF was developed to be flame resistant, and it passed the Mine Safety and Health Administration severe tests.

**SUPERTUFF is the solution**



### *SUPERTUFF performances*

#### **Abrasion resistance**

Tests according to EN-ISO 6945 norms (weight 50+/-5N) state that the maximum allowed loss of weight is 0.5g:

- Standard cover: 0.15g after 2000 cycles
- SUPERTUFF cover: 0.0g after 1.000.000 cycles

#### **Oil swell**

In IRM 903 oil according to SAE norm (70h at 100°C), max 100%:

- Standard cover: 73%
- SUPERTUFF cover: 18.2%

In IRM 903 oil according to DIN norm (168h at 100°C), max 100%:

- Standard cover: 60%
- SUPERTUFF cover: 9%

#### **Ozone resistance**

According to EN 27326 norm (50, 40°C), min 72h without cracks:

- Standard cover: 96h (maximum limit reached without cracks)
- SUPERTUFF cover: >800h (with no cracks)

Ozone resistance after 96h at 40°C, with different ozone concentration:

- Standard cover: 50pphm (maximum limit reached without cracks)
- SUPERTUFF cover: >200pphm (with no cracks)

#### **Flame resistance**

SUPERTUFF cover is MSHA (US MSHA 152/7) approved for flame resistance.

#### **UV rays and chemicals**

SUPERTUFF cover is resistant to UV, animal fats, acids, and any other environmental stress.



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