



Ceramic transfer hoses (rubber with ceramic insert)



ALUSPHERE

Extremely abrasion-resistant ceramic hose Inner

layer: ceramic balls embedded

in black rubber NR

Reinforcement: Synthetic cord **Outer**

layer: black SBR rubber / NR

Operating temp: -30°C to +80°C

Delivery hose for pneumatic transfer of dry abrasive substances. Special hose construction with exceptional abrasion resistance. Smooth inner layer made of black antistatic natural rubber with embedded alumina beads (Al₂O₃ - aluminium oxide), a ceramic material with high hardness. Reinforcement with synthetic cord. Built-in **copper wire** which, when earthed (connected to the earthed end), dissipates electrical charges. Outer layer of black, anti-static (R^{106Ω}) SBR / NR rubber resistant to abrasion and ageing.

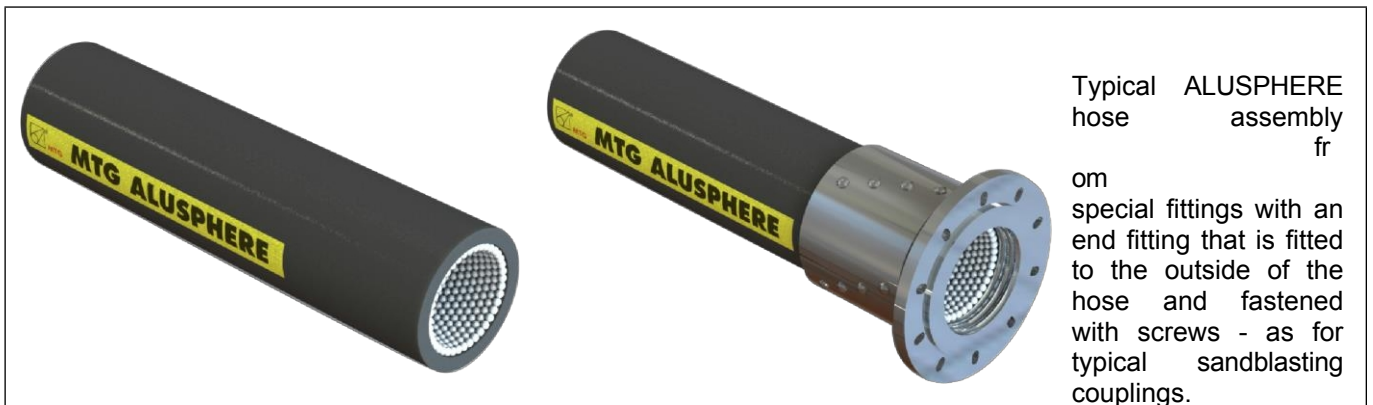
Hose designed for the transport of dry highly abrasive substances: e.g. dry cement, coal, coal dust, coke, solid fuels from secondary raw materials, minerals, ceramic powders, steel shot, glass fragments, glass fibre. Used in steelworks, coking plants, power plants, cement works, mines, glassworks, abrasive and insulating material factories.

The advantage is the long service life of the hose in these applications - a traditional abrasion-resistant rubber hose, for example, can only last a few days, while an ALUSPHERE hose can last up to several months under the same conditions.

Assembly and special ends - contact Tubes International.

| index | internal diameter [mm] | external diameter [mm] | wall thickness [mm] | working pressure [bar] | Bursting pressure [bar] | bend radius [mm] | mass [kg/m] | Roll length [m] |
|---------------------|------------------------|------------------------|---------------------|------------------------|-------------------------|------------------|-------------|-----------------|
| MT-ALUSPHERE-019 | 19 | 40 | 10,5 | 12 | 36 | ~ | ~ | 20 |
| MT-ALUSPHERE-025 | 25 | 45 | 10 | 12 | 36 | ~ | ~ | 20 |
| MT-ALUSPHERE-025x49 | 25 | 49 | 12 | 12 | 36 | 274 | 1,58 | 20 |
| MT-ALUSPHERE-032 | 32 | 52 | 10 | 12 | 36 | ~ | ~ | 20 |
| MT-ALUSPHERE-032X56 | 32 | 56 | 12 | 12 | 36 | 320 | 2,85 | 20 |
| MT-ALUSPHERE-038 | 38 | 58 | 10 | 12 | 36 | ~ | ~ | 20 |
| MT-ALUSPHERE-038X61 | 38 | 61 | 11,5 | 12 | 36 | 380 | 3,00 | 20 |
| MT-ALUSPHERE-050 | 50 | 72 | 11 | 12 | 36 | 500 | 4,05 | 20 |
| MT-ALUSPHERE-063 | 63,5 | 90 | 13,25 | 12 | 36 | 640 | 5,05 | 10 |
| MT-ALUSPHERE-070 | 70 | 100 | 15 | 12 | 36 | ~ | ~ | 10 |
| MT-ALUSPHERE-080 | 80 | 110 | 15 | 12 | 36 | 860 | 7,30 | 10 |
| MT-ALUSPHERE-100 | 100 | 132 | 16 | 12 | 36 | 1000 | 8,60 | 10 |

Note: indexes highlighted in colour - most commonly used



Typical ALUSPHERE hose assembly for

special fittings with an end fitting that is fitted to the outside of the hose and fastened with screws - as for typical sandblasting couplings.

