

UNDERGROUND MINING FILTER UNIT

FA-ST Filtration Analysis Services Technology Ltd have introduced to the range of by pass micro filtration products, a **NEW** filter unit Part No 9778UMZ, specifically designed for hazardous applications where anti sparking, strength and durability are required. These units are manufactured in Zinc to comply with the statutory regulations for underground mining operations.



Product Qualities.

Anti Sparking.

Zinc is non sparking and suitable for hazardous location applications such as coal mines, gold mines, tankers and refineries.

Strength & Ductility.

Zinc offers high strengths (to 50,000psi) and superior elongation for strong designs and formability for bending, crimping and riveting operations. Few materials provide the toughness of Zinc, impact resistance is significantly higher than cast aluminium, plastic, and grey cast iron.

Rigidity.

Zinc has the rigidity of metals with modules of elasticity characteristics equivalent to other die-castable materials. Stiffness properties are, therefore, far superior to engineering plastics.

Thin Wall Castability.

High casting fluidity allows for thinner wall sections to be cast therefore reducing the overall weight and allowing good heat dissipation.



9778UMZ installed on Dodge Rockwell CST at Shendong Mining Company, Daliuta Mine. Underground to Surface coal conveyor.



9778UMZ on Dodge Rockwell CST. Installed 7km underground on coal transfer conveyor

All units are subject to individual pressure testing and strict quality control, they are powder coated white and supplied fitted with a cartridge. Each unit has a mini-mess sampling point fitted to the lid to enable ease of sampling. A high pressure ball valve is installed on the feed line; this can isolate the unit so that cartridge changes can be made without stopping the machinery.

Units are supplied boxed, complete with mounting bracket & fitting kit **or** can be supplied with MSHA covered Hydraulic Hose, sampling point, pressure gauge, high pressure ball valve, mounting bracket, nuts & bolts, and all related hydraulic fittings/adaptors.



The standard 9778UMZ unit can be installed on any hydraulic circuit, up to 100psi maximum or with the addition of our steel pressure compensating limiting valve (restricts feed line pressure to 40psi) may be installed on circuits up to 3000psi maximum.

Hydraulic fittings can be supplied to suit specific machinery applications and are available in JIC, BSP, Metric, ORFS and Parker SteckO®.

The units can also be fitted with polypropylene filter cartridges for water based glycols and emulsified oils.



Filter Cartridges: Supplied in boxes of 12. All cartridges are covered with polythene bags and boxed. Each box contains replacement lid seals. Cartridges must be stored in a dry area. Water retention of 0.72 litres and dirt holding capacity of 1.2 kilos. BETA rated 1 micron (3 micron absolute) Particulate contamination in accordance with BS 5540 part 4: 1981 and ISO/DIS 4406. ISO 14/9 equivalent to NAS 1638 class 6 - hydraulic oil specification.



Mobil Gear Oil before and after filtration



Mobil Hydraulic oil contaminated with water, before and after filtration

Please contact FA-ST Ltd on 01246268900 or by e-mail info@fa-st.co.uk. Please visit our website www.oilfiltration.co.uk for further information on all our products and services. FA-ST Ltd is an ISO9001:2000 accredited company

