HYDAC

Stat-Free Elements

Description

The trend of using ash-free hydraulic fluids, providing more compact systems and applying finer filtration, has led to an increase of electrostatic charging problems in hydraulic and lubrication systems during the last years.

In its new **Stat-Free** filter elements HYDAC combines excellent electrostatic features and filter performance for the first time. Through an innovative filter mesh and element design a **very low charging of the filter element and the fluid** during system operation is achieved, which has never been accomplished before.

Technical Data:

- Filtration ratio:	Lubimicron:	10 and 20 µm
	Mobilemicron:	10 and 15 µm
	Betamicron®4:	3, 5, 10 µm
- Filter material:	Filter material, generating very low electrostatic charge.	
- Collapse/ Burst strength:	Lubimicron:	10 bar
	Mobilemicron:	10 bar
	Betamicron®4:	20 bar

Advantages

- **High operation safety,**
  since arcing and subsequent carbon black accumulation, as well as sludge accumulation within the oil cannot occur

- **Longer oil changing intervals**
  through preserving oil filtration

Applications

Stat-Free elements are particularly suitable for applications, in which electrostatic discharge typically turns up, such as power plants, gas turbines, plastic injection molding machines, calendar (paper industry) and every further hydraulic and lubrication system with similar problems.
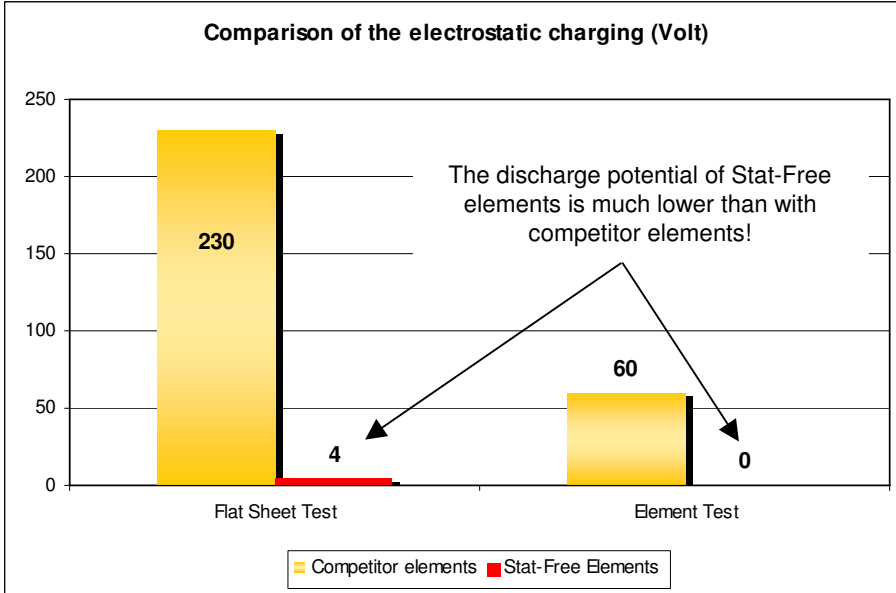
Product Launch / Delivery Time

- **Product Launch:**
  Converting of filter elements to the Stat-Free design for all turbine lube oil applications starts in February 2009

- **Delivery Time:**
  on inquiry

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Measuring Results

The performance of the Stat-Free elements was established by extensive laboratory and field tests.

By comparing the test diagrams below, the oil charging through the Stat-Free elements
with the charging through conventionally designed competition elements, the advantage is obvious.

Comparison of the electrostatic charging (Volt)

The discharge potential of Stat-Free elements is much lower than with competitor elements!

- Flat Sheet Test: 230 / 4
- Element Test: 60 / 0

☐ Competitor elements ■ Stat-Free Elements

Type Code

The type code of the Stat-Free elements shows the same structure as all other HYDAC elements.

1300   R   010   G/HC   /-SFREE - KB

Size
1300 (example)

Design
R = return line filter element
D = pressure filter element

Filtration ratio in µm
003, 005, 010, 015, 020, others on inquiry

Filter material
G/HC = Lubimicron (plastic fiber)
MM = Mobilemicron (plastic fiber)
BN/HC = Betamicron®4 (glass fiber)

Additional Information

- KB   = no bypass valve
- SFREE = element technology Stat-Free

Information
For further information the Technical Sales Department at HYDAC Filtertechnik GmbH, as well as your responsible
HYDAC office, will be pleased to support you.