



Product Data: **Magnetorheological (MR) Fluid**

Category: **Smart Controllable fluid**

Product Code: **AMT - SMARTEC⁺**

(*Applicable for Advanced Vibration /motion control based devices)

MR fluid is a smart controllable fluid, which when activated with electromagnetic field, instantaneously changes from a free flowing liquid to a semi-Solid and vice versa. **AMT-SMARTEC⁺** is a silicon based MR variant, exclusively formulated for Motion control in Heavy Machineries, Actuators, Robotics and other wide range of applications. This variant has high yield strength to take up heavy loads and dissipate the energy with minimal consumption of power.

Highly durable and Reliable with best in class features.

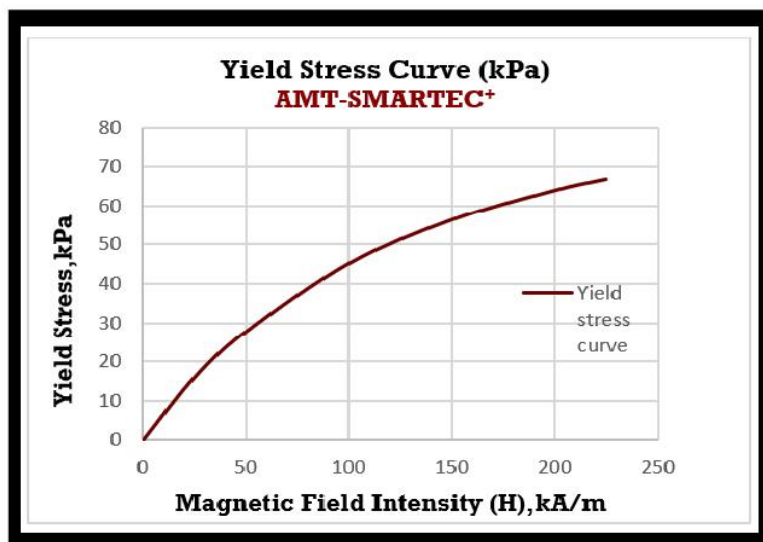
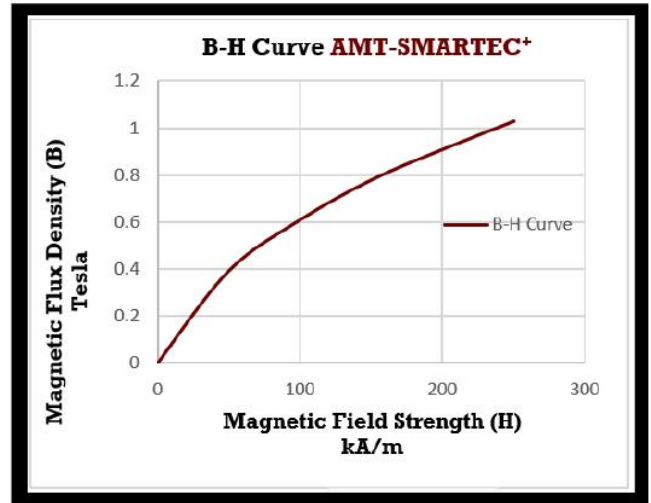
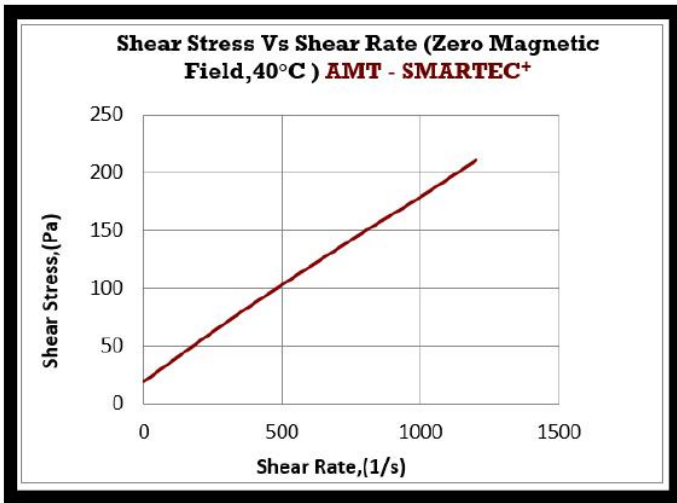
Why AMT - SMARTEC⁺ ?

- Wide Range of Yield Stress achievable at minimal Field Intensity
- Settling Resistant with proven stabilizers (Additives)
- Wide range of Operating Temperature
- Rapid response to Magnetic Field (Milliseconds)
- Highly Stable at ON/OFF State
- Optimum Viscosity, Enhanced Lubricity and Wear resistant
- Low power Consumption

Technical Properties

| | |
|--|------------------|
| Appearance | Dark Gray Liquid |
| Density (g/cm ³) | 2.95 - 3.05 |
| Viscosity (Pa.s) 40°C (500 - 800 1/s) | 0.188 ± 0.027 |
| Response Time | < Milliseconds |
| Flash Point(°C) | >180 |
| Operating Temp Range(°C) | - 40 to +150 |
| Solid Content by Weight % | 82 |
| Max.Yield Stress (kPa) @ 100 1/s, 180 kA/m | 61 ± 5 |

Choose SMARTEC⁺ for better durability and high yield



Storage Note: Keep the bottle tightly closed when not in use.

Please Note: Shake well before use. (*A slight degree of separation is noticeable between the carrier fluid and the particles under static conditions *No such separation is observed under flow conditions)

*Information provided herein is based upon tests believed to be reliable. In as much as Arus MR Tech` has no control over the manner in which others may use this information, it does not guarantee the results to be obtained. In addition, Arus MR Tech` does not guarantee the performance of the product or the results obtained from the use of the product or this information where the product has been repackaged by any third party, including but not limited to any product end-user. Nor does the company make any express or implied warranty of merchantability or fitness for a particular purpose concerning the effects or results of such use.

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