Material Database for ANSYS 13.0

The database includes linear properties, stress-strain curves with temperature, fatigue, visco-elastic and rate-dependent properties of metals, plastics, foams, rubber, wood and many other materials. Use the CAE Modeler software to convert data into common ANSYS Mechanical, ANSYS EXPLICIT STR, LS-DYNA material models. The Database is integrated within Workbench 13.

You can also create your own Material Database and connect it to ANSYS Workbench.

Introductory Price $385 (see details on back)

For more information contact: info@matereality.com

TrueDigital is a paperless (non-pdf) digital capture of ‘contextually complete’ data, including methodology, source, parameters, pictures and observation. TrueDigital makes data traceable, searchable and application-ready.

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Database Contains:

**Datapoint Labs** non-linear CAE materials database
- Hyperelastic properties of 8 rubbers, elastomers, and silicones
- Temperature-dependent stress-strain data on 8 common plastics
- High strain-rate stress-strain data on 3 foams
- 37°C in saline stress-strain and visco-elastic data on UHMWPE for in-vivo biomedical applications
- High strain-rate tensile data on polycarbonate and polypropylene plastics

**IDAC** materials database
- IDAC offers two material properties databases; a 250 basic materials one and a larger 400 materials database which includes 254 non-linear material data curves such as Fatigue, Non-linear Stress-Strain, Temp-Dependent Young’s Modulus etc

**NIST electronic database for design properties**
- Modulus, Poisson’s Ratio, thermal expansion, thermal properties of silicon, ceramics, glass, metals and solders for chip making and electronic applications

**Ticona, Bayer, Lanxess and Dow material databases**
- Linear and non-linear properties of plastics

**Option: Add the MMPDS-02 Material Database** (for $500)
- Single point material properties on aluminum, steel, copper alloys, nickle and cobalt alloys
- Multi-point stress-strain curves, fatigue, creep, thermal expansion
- Statistical design properties
- Over 35,000 datasets of pedigreed mechanical and thermal properties