**Type of experiment**: Micro-scratch tests.

**Author(s)**: Uzair Rehman

**Comments:**

This is an example for a metadata template using micro-scratching.

**Operator** (string)

*Uzair Rehman*

**Experiment ID** (string)

*R68\_03919*

**[Sample information]**

**Specimen ID** (string)

*180704\_C076\_Name15:M-9*

**Parent sample specimen ID**(string)

*Mg-Ca\_19, solid solution, 2017-05-18*

**Sample location** (string)

*Longitudinal cross-section*

*25% depth from top surface*

**[Sample preparation]**

**Preparation routine** (string)

*Metallo\_03*

[this might include (here or leaded from “Metallo\_03”9

**Grit** (multiple int)

*4000*

**Grit material** *(“SiC”, “magic rocks”)*

*SiC*

**Suspensions [µm]** (multiple int)

*5, 3, 1, 0.05*

**Material suspension** (“diamond”, “magic rocks”)

*Diamond*

**Solvent** (“isopropanol”, ethanol”, “water”, “liquid luck”)

*Isopropanol (ethanol, water)*

*Isopropanol*

**Date of preparation** (date)

DD.MM.YYYY

**Sample storage** (“air”, “dissicator”, “high vacuum”, “protective gas – Ar”,”…”)

*Dissicator*

**Instrument used** (string)

*G200/PI88*

**Tip used** (“Berkovich”, “Flat punch”, “Conical”,….)

**Comments** (string)

*Columnar grain boundary*

**[This is per indent (to be extracted automatically) from data file itself/meta data where available]**

**Type of test [“constant strain rate, CSR”, “strain rate jump, SRJ”, “micro-pillar compression, MPC”, “fracture toughness, FT”]** (string)

**Scratch Length [um]**

**Scratch Velocity[um/s]** (float)

**Scratch Orientation [deg]**

**Maximum scratch load [mN]** (float)

**Profiling velocity [um/s]**

**[Data Environment as an example of non-standard but useful records]**

**Temperature [°C]** (float)

*25*