NT Conradie

24/01/2020

MEng Safety Report

Tensile Testing of Mold StarTM 15

on MTS Load Frame

**Date:** January 2020

**Supervisor:** Dr MP Venter

**Student:** Mr NT Conradie

**Laboratory Technician:** Mr N Macallister

# Emergency Contacts:

|  |  |  |  |
| --- | --- | --- | --- |
| **Contact** | **Room nr.** | **Work nr.** | **Cell nr.** |
| Mr Ferdi Zietsman | M216 | 4275 |  |
| Dr MP Venter | M |  | 0828660836 |
| Campus Security | - | 0218082333 | 0828082333 (WhatsApp) |
| Fire Brigade | - | 0218088888 | - |
| Ambulance | - | 0218833444 | - |

**Pressure Vessels or Pipes:** No pressure vessel or pipe with a pressure

in excess of 50 kPa is involved in this project.

Laboratory Technician (Mr N Macallister)

Supervisor (Dr MP Venter)

Laboratory Manager (Mr Cobus Zietsman)

# Overview of Testing

Tensile testing of Mold-Star 15 is to be performed. The purpose of the tests is to obtain material properties for use in numerical simulations of the nonlinear hyperelastic material. A high level of accuracy and repeatability is required to minimize the effect of the experimental setup on the results.

In order to obtain an accurate measure

The equipment that will be used is listed in the table below.

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# General Lab Safety

# Fire Safety

# Activity Based Risk Assessment

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| **Activity** | **Risk** | **Risk type** | **Classification of risk severity** | **Mitigating steps** |
| Entering the laboratory |  |  |  |  |
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# Appendix A – Emergency Evacuation Plan