



## Technical Report PolymerMetal®

### TEC-# 027

Examination of shearing strength

### Used products

MM-metal SS-steel 382

### Description

Several cylinder tappets and shells made off steel have been coated with the PolymerMetal MM-metal SS-steel 382. Immediately afterwards the tappets were inserted into the shells. After full curing of the PolymerMetal the compound was stressed in traction direction to determine the shearing strength.



### Result

The extraordinary shearing strength of MM-metal SS-steel 382 with a value of 30 MPa was proved by the tests. MM-metal SS-steel 382 cures without the creation of cracks.

The linear shrinkage of MM-metal SS-steel 382 is according to ASTM D 2566 with a value of 0,0001181 cm/cm extremely low. It is therefore clearly below the values of comparable polymer materials. MM-metal SS-steel 382 is suitable superiorly as construction material.

**MultiMetal**  
the MetalExistenceCompany®