Uddeholm Dievar®

For additive manufacturing

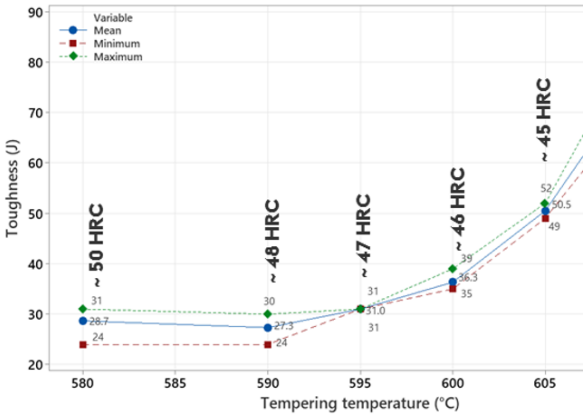
CHEMICAL COMPOSITION

Typical analysis %	C 0.35	Si 0.2	Mn 0.5	Cr 5.0	Mo 2.3	V 0.6

GENERAL

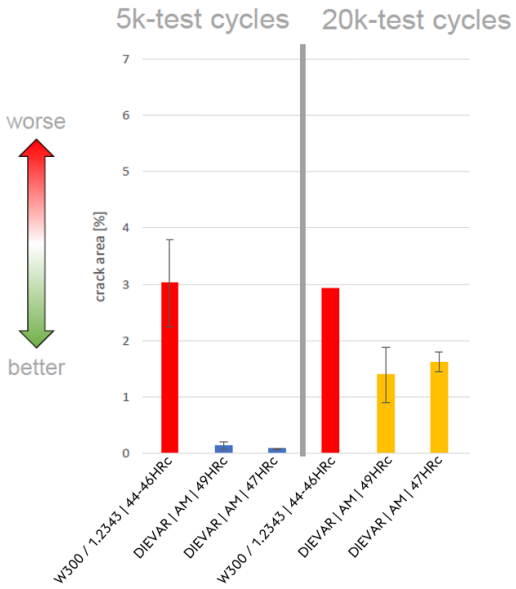
Uddeholm Dievar for additive manufacturing offers several advantages in the field of additive manufacturing.

- Superior Toughness level in hardened and tempered condition
- vAMC recommendation: 47 HRc providing a toughness of >30 J
- High temper resistance
- High temperature strength



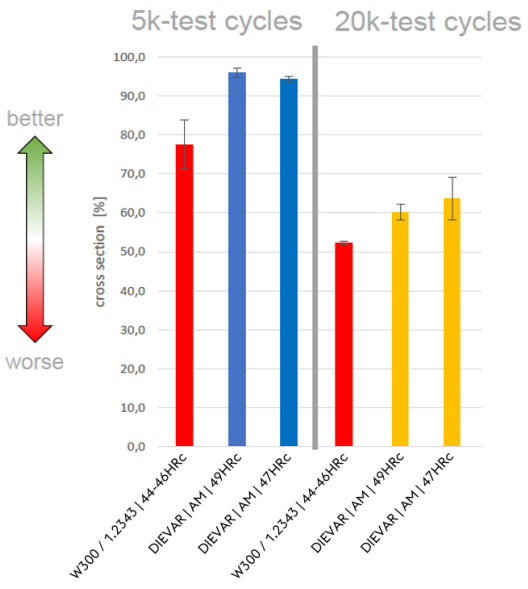
Dievar properties: Toughness to the assigned hardness above tempering temperature.

Crack area propotion



Dievar (on several hardness levels) outperforms conventionally used materials especially in terms of the crack area proportion.

Cross section results



The cross section results show that, compared to conventionally used materials, Dievar possesses a pronounced high temperature strength.