

**WMC Sinterstar AG**  
**Bahnstrasse 1**  
**CH-4932 Lotzwil**  
**Tel. +41 (0)62 919 70 40 Fax +41 (0)62 919 70 50**

info@wmc-sinterstar.ch

|                |                |                          |     |
|----------------|----------------|--------------------------|-----|
| Sorte<br>Grade | <b>V50 HIP</b> | ISO-Bereich<br>ISO-Range | G30 |
|----------------|----------------|--------------------------|-----|

|  |                       |     |  |  |  |
|--|-----------------------|-----|--|--|--|
| Chemische<br>Zusammensetzung<br>Chemical composition |                       |     | Physikalische Daten<br>Physical information                  |  |  |
| WC   | 85.0                  | wt% | Mittlere WC Korngrösse<br>Average grain size                 |  | Mittel / Medium (2.0 µm)                   |
| TiC  |                       | wt% | Dichte<br>Density  |  | 14.00 g/cm <sup>3</sup>                    |
| Ta/NbC   | < 0.1                 | wt% | Härte<br>Hardness  |  | 1150 HV30                                  |
| Co   | 15.0                  | wt% | Risszähigkeit<br>Fracture strength                           |  | 15.0 N/mm <sup>2</sup> ·m <sup>(1/2)</sup> |
| Ni   |                       | wt% | Biegebruchfestigkeit<br>Transverse rupture strength          |  | 3500 N/mm <sup>2</sup>                     |
| Andere<br>Other                                      |                       | wt% | Druckfestigkeit<br>Compressive strength                      |  | 4000 N/mm <sup>2</sup>                     |
| Porosität /<br>Porosity                              | A02 B00 C00<br>Eta 00 |     | E-modul<br>Young's module                                    |  | 520 kN/mm <sup>2</sup>                     |
|  |                       |     | Wärmeleitfähigkeit<br>Thermal conductivity                   |  | 90 W/mK                                    |
|  |                       |     | Wärmeausdehnungskoeffizient<br>Thermal expansion coefficient |  | 6.0 10 <sup>-6</sup> K                     |

Bemerkungen / Comments:

Typische Gefügestruktur / Grade structure

