HCC is a special woven material that is designed to work at high temperatures and has a low rate of wear. It is based on VH-03 and has been reinforced with extra copper to increase friction performance. HCC can dissipate heat, has very stable friction coefficient and steady work at high temperatures with minimal wear. The Copper Plus material with its alloy backing matched to a performance pressure plate will provide smooth engagement and extended life.

Material data

**Friction properties (according graphics)**
- Static Friction Coefficient (15bar, from box): $0.45 \pm 0.05 \mu$
- Static Friction Coefficient (15bar, 100°C): $0.45 \pm 0.05 \mu$
- Dynamic Friction Coefficient: see charts
- Wear Rate: see charts
- $T^\circ$ Fading: $>400 ^\circ C$

**Physical properties**
- Hardness (DIN53505): $85 \pm 5$ Shore-D
- Specific Gravity (ASTM D792): $1.9 \pm 0.05$ gr/cm$^3$
- Ignition Loss (ASTM D7348): $40 \pm 2$ %
- Acetone Extraction (ASTM D494): $2 \pm 0.2$ %

**Mechanical properties**
- Compressive Strength (ISO 844:2014): $140 \pm 5$ N/mm$^2$
- Burst Resistant (200 x 137 x 3,5) 200°C: $14000 \pm 100$ RPM

**Recommended Working Values**
- $T^\circ$ Max. Continuous Operation: $250 ^\circ C$
- $T^\circ$ Max. Intermittent Operation: $400 ^\circ C$

Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.