NACHI developed the EXEO series alloys in company-wide combined and connected engineering system by first analyzing and determining necessary characteristics and then applying Nachi original alloy design and special melting technologies. EXEO-SP shows superior wear resistance, so it is the best suitable for parts where it is desirable to suppress degradation of surface smoothness caused by friction.

- Alloy composition is accurately controlled by using special melting technology.
- Nachi original technologies make it with well balanced distribution of carbides and matrix alloy elements.
- It is much better than cemented carbides for wear resistant parts because of its good workability and cost performance.

**Applications**

EXEO-SP is used as backing plate of cylindrical grinding machine and contributes to long-life of the part.
Applications are;
Bearing Inner & Outer, Bush, Collar, Piston, Torque Converter, etc.

**Properties**

| Comparison as wear resistant parts |

**Damage on wear surface**

- SUJ2 (52100) wear surface
- EXEO-SP wear surface

EXEO-SP has 15x the wear resistance compared to SUJ2 (52100)
EXEO-SP has better wear resistance compared to PM HSS even under low speed and high load conditions.

EXEO-SP has few non-metallic inclusions and superior fatigue strength.

EXEO-SP can be hardened to over 68 HRC at comparatively average quenching temperatures (in a vacuum furnace at about 1180°C). This makes it very effective for applications where wear resistance is required.

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