

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.

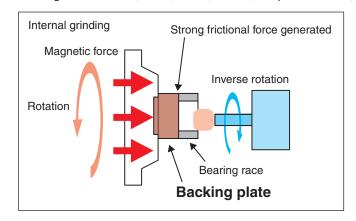
EXEO-SP shows superior wear resistance, so it is the best suitable for parts where it is desirable to suppress degradation of surface smoothness caused by friction.

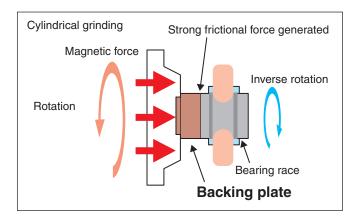
- Alloy composition is accurately controlled by using special melting technology.
- Nachi original technologies make it with well balanced distribution of carbides and matrix alloy elements.
- •It is much better than cemented carbides for wear resistant parts because of its good workability and cost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





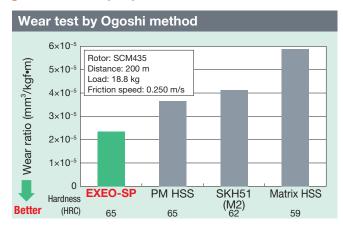
SUJ2 (52100) wear surface

EXEO-SP wear surface

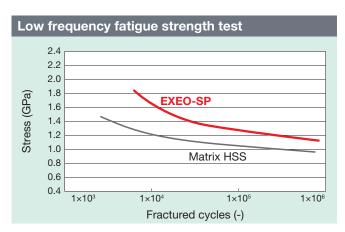
EXEO-SP has 15x the wear resistance compared to SUJ2 (52100)

Properties

Mechanical properties

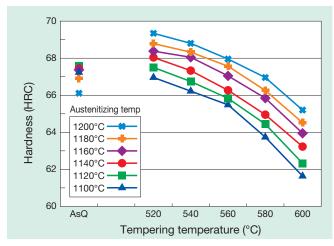


EXEO-SP has better wear resistance compared to PM HSS even under low speed and high load conditions.



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

Hardness chart



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.

Production range

- Available either finished or semi-finished.
- Contact us for production specifications, delivery times, and minimum orders.

Shape	Range of dimensions (mm)
Forged round bar	φ40 ~ 200
Rolled round bar	φ13 ~ 100
Forged flat bar	Contact us for details (30 - 200)
Rolled flat bar	Contact us for details (t 3 – 48)
Ground rod	(φ2 ~ 13) × 2000L
Drawn coil	φ1.3 ~ 12

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 • Please note that the characteristics and values provided here are typical examples which may differ from the characteristics of the actual product.

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