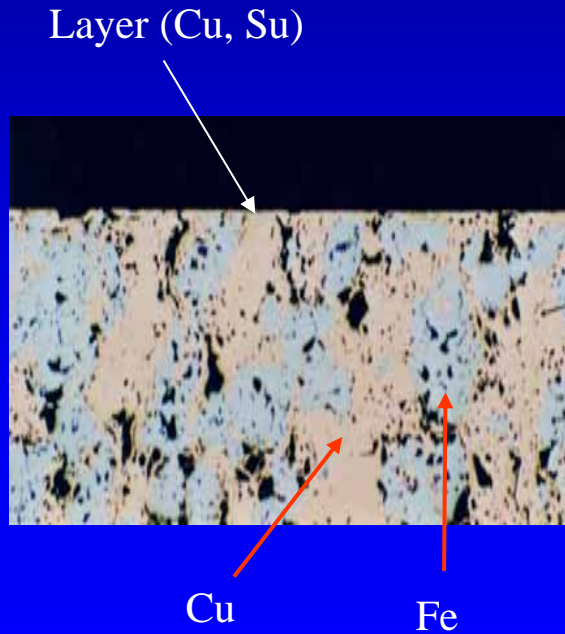


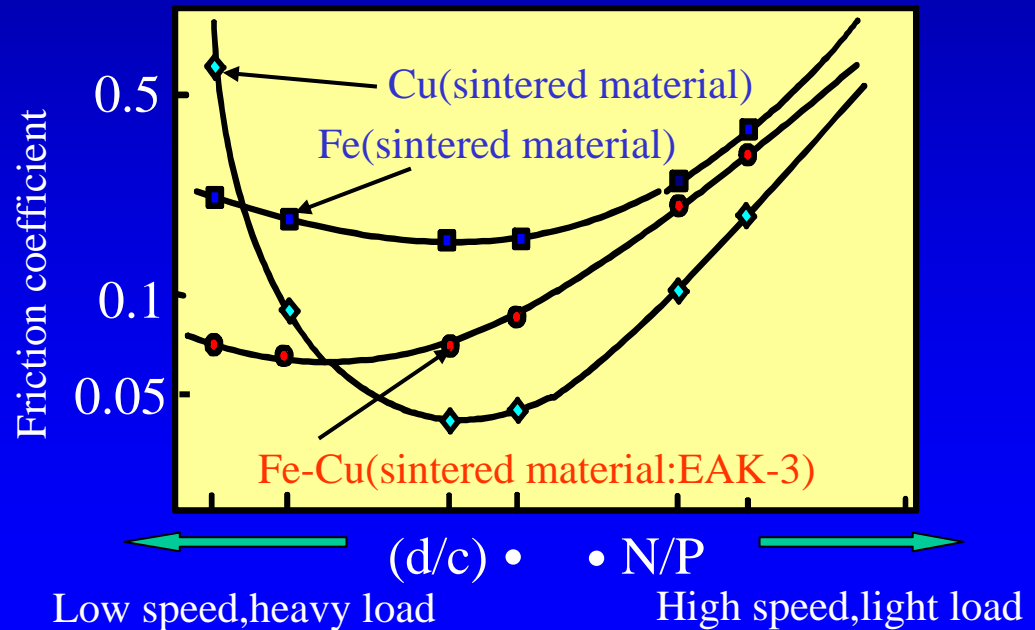
Nikkaloy EAK-3

EAK-3 is an excellent material in lubricity and wear resistance.

Fe	Cu	Sn	P	C	-
Rem	50~55	1~3	0.1~0.5	<1.0	<0.5

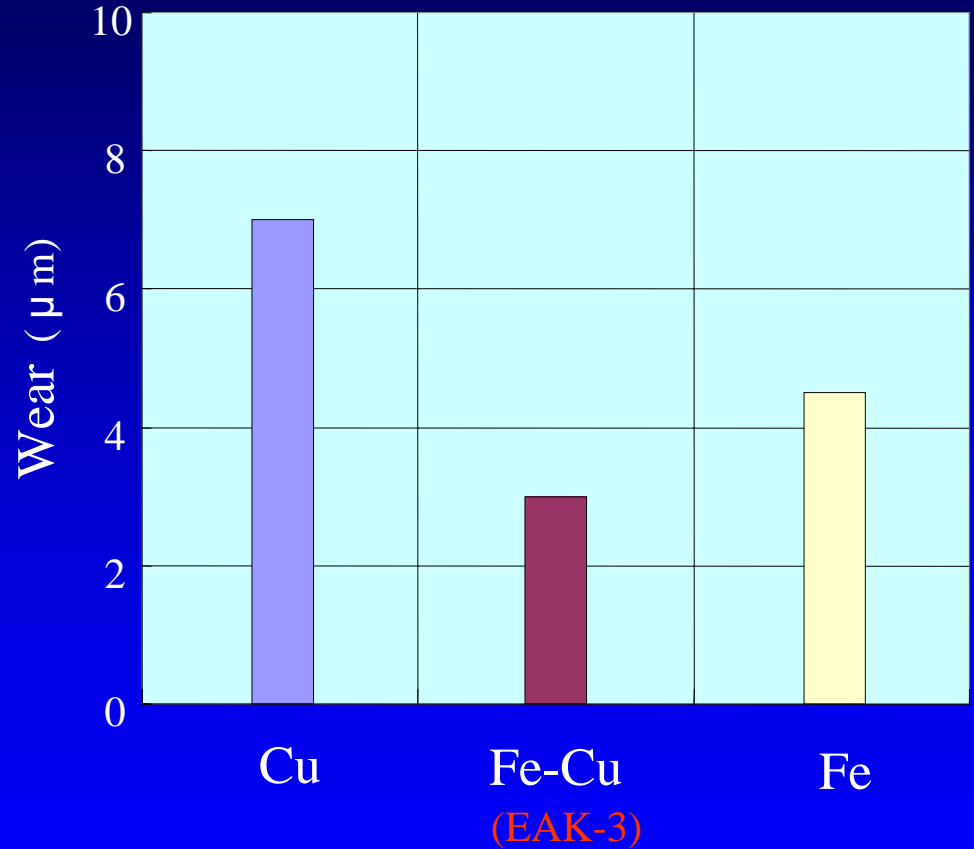
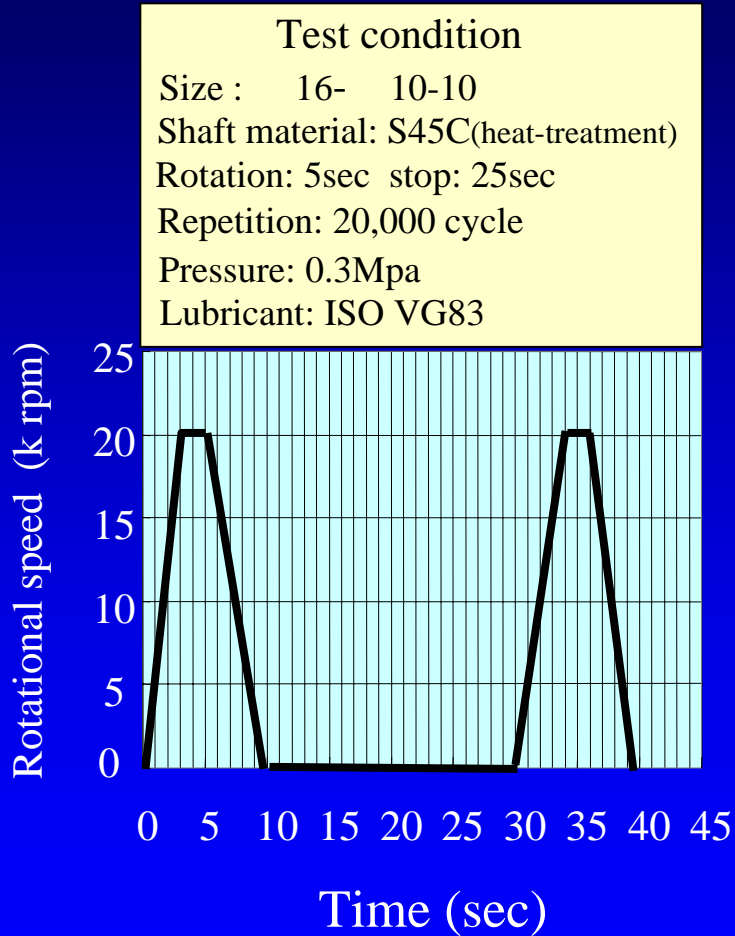


Micro structure



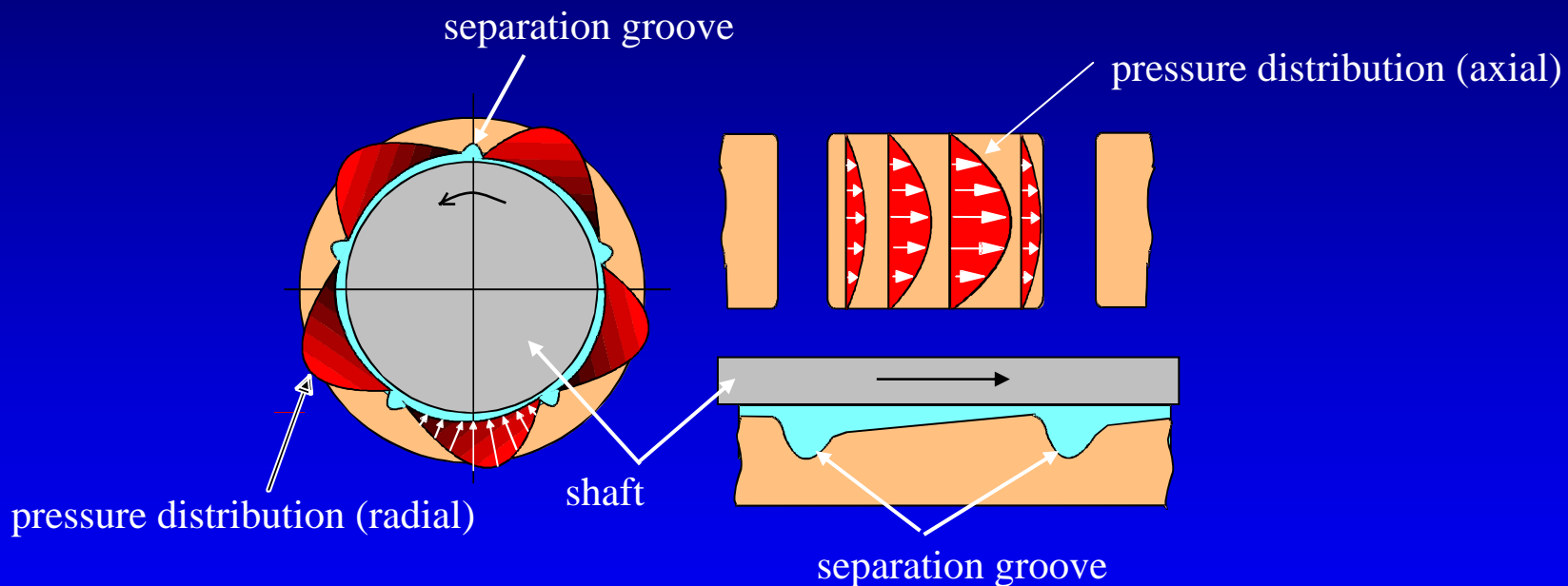
Friction characteristics of various sintered materials

Comparison of wear



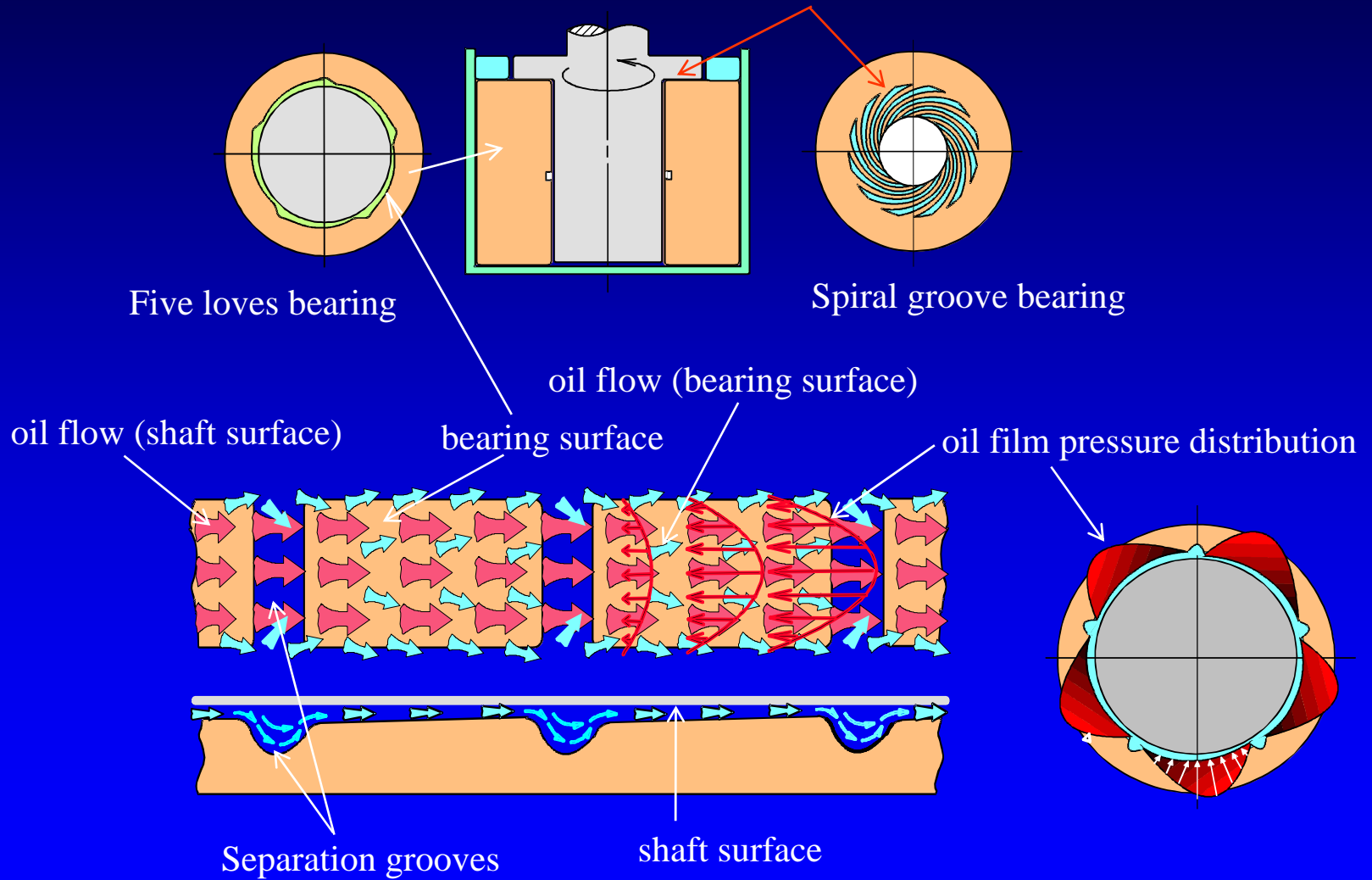
Comparison of wear in sintered material

Dynamic pressure generation mechanism of multi-lobes bearings

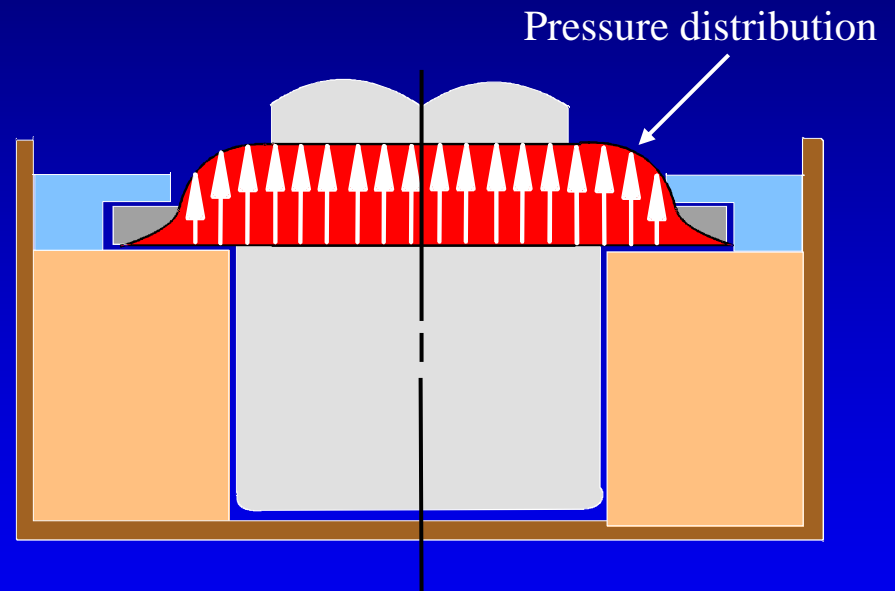
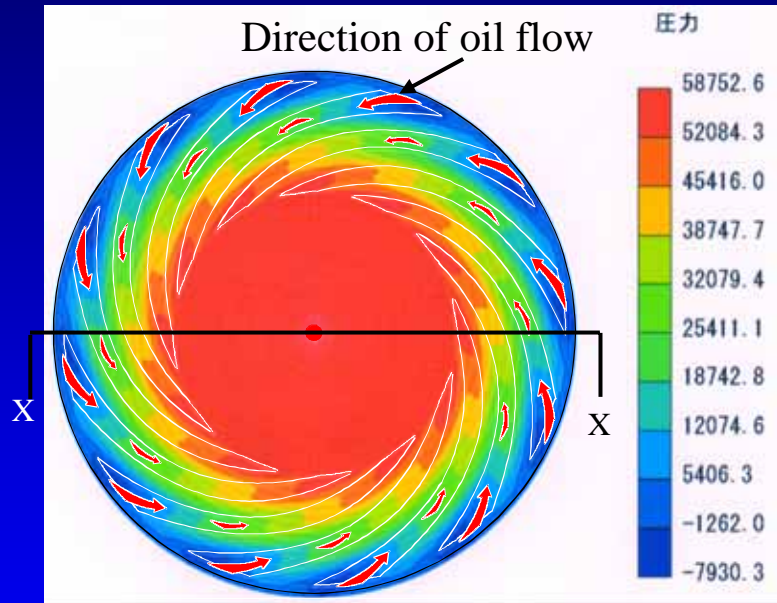


The dynamic pressure of a multi-lobes bearings generates by the wedge action of the oil in the bearing clearance. The shaft is supported in high accuracy rotation by fluid dynamic pressure.

Oil flow of multi-lobes bearings



Oil flow and pressure distribution of spiral groove bearings



X-X direction

Comparison of bearing stiffness and bearing loss(1) (calculation)

