

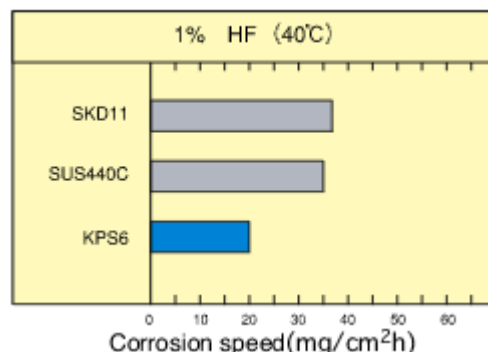
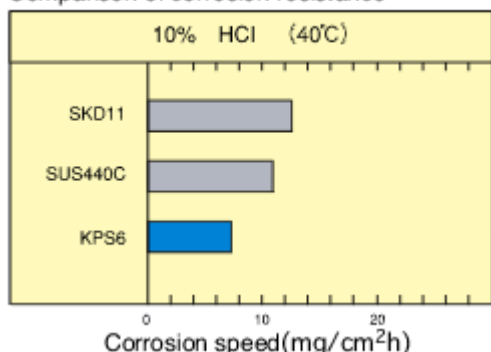
<Patented steel>The KPS6 is high-grade cold-tool steel for resin-forming machine parts with improved corrosion resistance and wear-resistance

## Features of KPS6

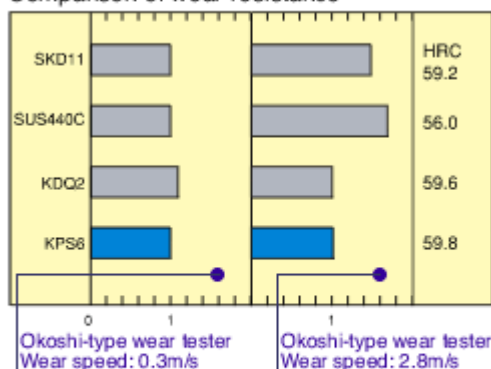
1. High corrosion resistance offers superior resistance against hydrochloric acid and hydrofluoric acid.
2. High-tenacity tool steel free from the possibility of breakage, cracks, chipping, and other troubles, and featuring high wear-resistance.
3. High fatigue strength prevents breakage due to fatigue with large loads.
4. Superior softening resistance offers applications at high temperatures.

## Characteristics

Comparison of corrosion resistance



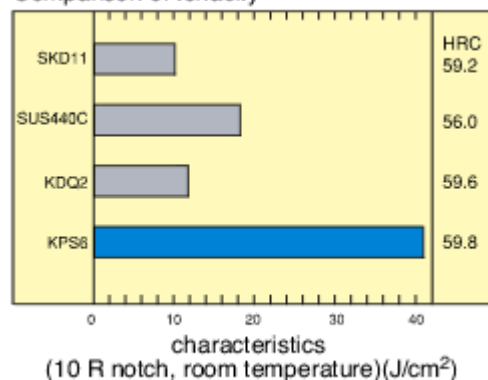
Comparison of wear-resistance



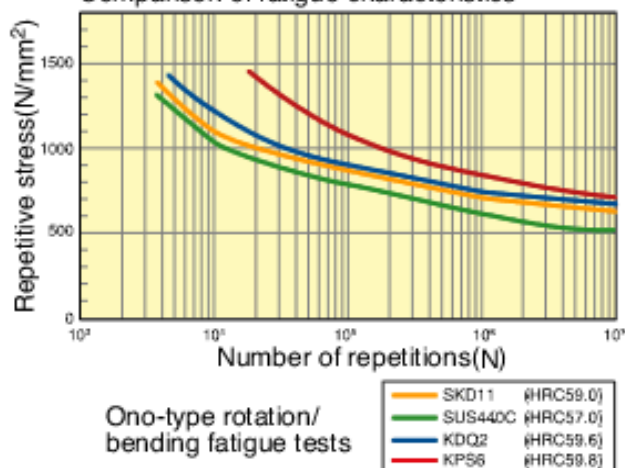
Relative comparison of scratch wear  
-> Much wear

Relative comparison of agglutination  
-> Much wear

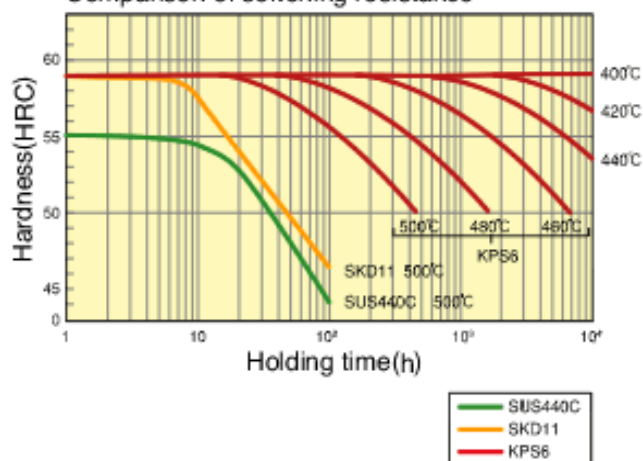
Comparison of tenacity



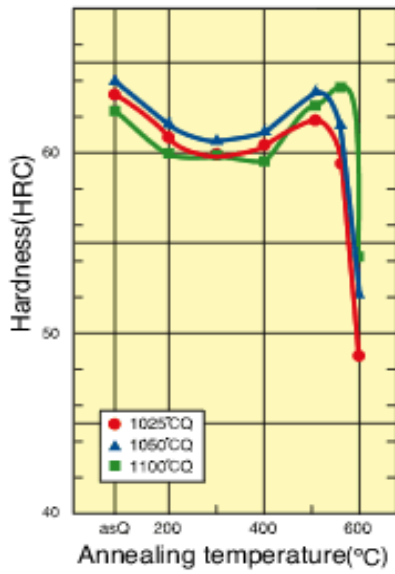
Comparison of fatigue characteristics



Comparison of softening resistance



## Thermal processing characteristics



Application	Hardening and cooling	Annealing temp	Hardness
Products requiring high tenacity	1025°C AC	550°C	HRC57-58
Products requiring high wear-resistance	1050°C AC	560°C	HRC59-60

Examples of dimensional variation after thermal processing of KPS6

	Gas cooling at 1050°C without annealing after hardening	After T1 510°C	After T2 540°C
L	+0.064%	+0.063%	+0.088%
D	+0.067%	+0.068%	+0.103%

