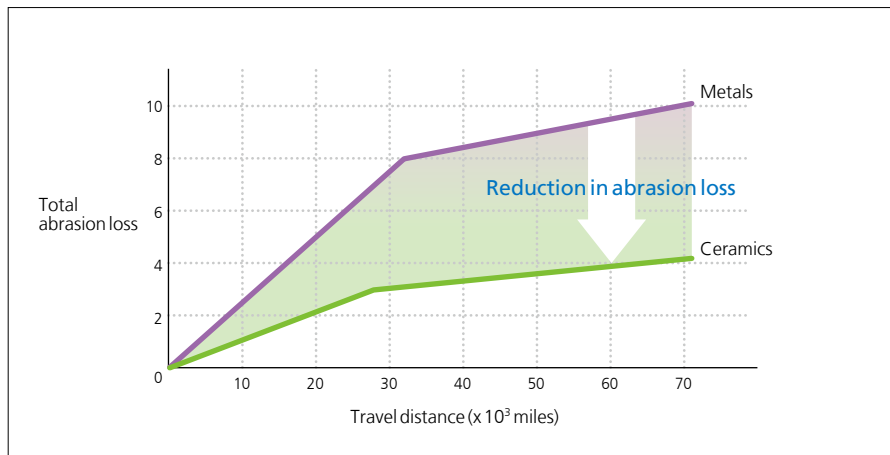


## Silicon nitride ( $\text{Si}_3\text{N}_4$ ) ceramics for automobiles

We have started joint development with Cummins Engine Company, Inc., one of the biggest diesel engine manufactures, since 1987 and have lots of successful experiences in practical application of silicon nitride fine ceramics mainly in the field of abrasion resistant parts for diesel engine fuel system. Thanks to their light weight, high abrasion resistance and excellent corrosion resistance, silicon nitride ceramics can make environmentally friendly engine parts that help complete the combustion required by world-wide exhaust gas regulations. We are very sure to offer ceramic products that have superior cost performance and are manufactured on a basis of the experiences of over twenty years both in product technology and material technology.



### Comparison of abrasion loss between metals and ceramics



## Silicon nitride ( $\text{Si}_3\text{N}_4$ ) ceramics for industrial facilities

We offer a variety of ceramics parts for industrial facilities taking advantage of their superior properties of abrasion resistance, thermal resistance, thermal shock resistance and poor wettability with molten metals. We are supplying silicon nitride center bulbs, contact collets, masks and so on to semiconductor manufacturing facilities that keenly require low dusting and long life components.

### [Application examples]

- Jigs for semiconductor manufacturing facilities

