

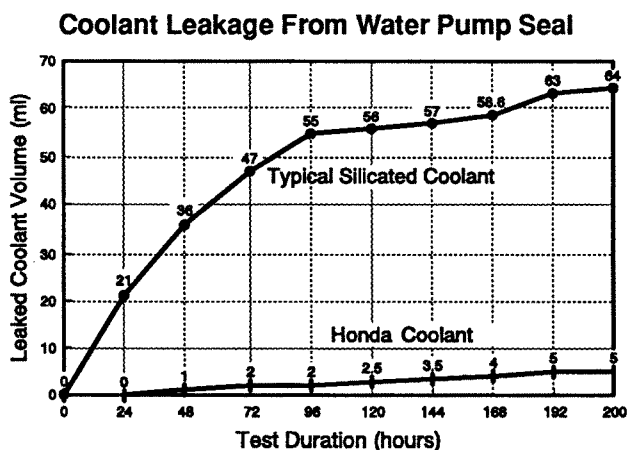
## Genuine Honda Coolant Is the Only Way to Go

Increasingly severe operating conditions and the advent of lower maintenance requirements have resulted in significant changes in the variety and the concentration of additives used in engine coolant. Also, the continual improvements in engine and vehicle design have challenged coolant suppliers to design products that perform well in a more demanding environment.

To meet these needs, Honda engineers have developed a superior, high-quality coolant that has several advantages over the competition.

Some antifreeze, although labeled as safe for aluminum parts, may not be compatible with Honda cooling system components. Extensive research and testing by both Honda R & D and CCI, the manufacturer of Honda coolant, have proven that the abrasive silicates and/or borates found in most domestic coolants can cause these problems:

- Silicates bond to the surface of the water pump seal and act as an abrasive, causing considerable seal erosion and coolant leakage. In actual tests, the silicated coolant caused early leakage. This leakage increased dramatically until a substantial portion of the coolant had been lost. In contrast, the Honda coolant had almost no leakage through the duration of the test.



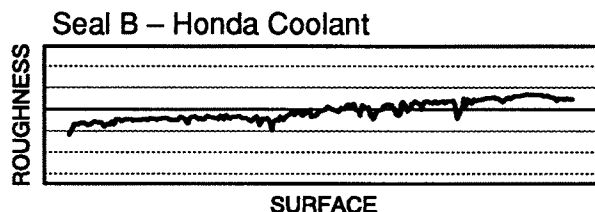
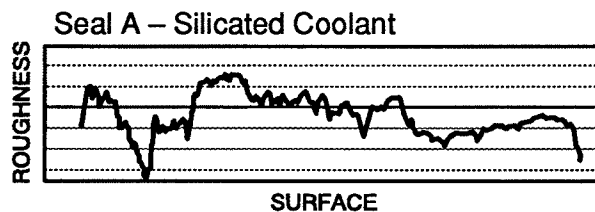
- Silicates tend to gel and settle in the coolest parts of the cooling system, causing radiator plugging and overheating.
- Borates cause pitting corrosion on the cylinder head.
- Silicate inhibitors are difficult to stabilize and, therefore, limit coolant shelf life.

Most commercially available coolants were originally designed for cast iron engines. Silicate, an inexpensive additive, was added to coolants to prevent aluminum corrosion, but the long-term durability of the combination was not tested.

In contrast, Honda coolant was designed specifically for aluminum engines. It contains an organic corrosion inhibitor instead of silicate. This superior formula gives these advantages.

- No silicate abrasion of water pump seals. For example, these graphs show the surface roughness of two aluminum water pump seal rings. Seal A, exposed to silicated coolant, shows considerable damage. Seal B, exposed to Honda coolant, displays only minute wear.

### Surface Roughness of Aluminum Seal Ring



- No plugging or overheating caused by silicate gelling.
- Excellent corrosion protection for aluminum components.
- Long-term corrosion protection for other cooling system materials (steel, cast iron, copper, solder, gaskets, seals, and O-rings).

You can find less expensive coolants on the market, but now you can see why genuine Honda coolant is the only coolant approved for Honda vehicles (it *must* be used for warranty repairs). Honda's non-silicate formula delivers added protection not offered by 95 percent of other brands. Since our customers expect lower maintenance, you're doing them an injustice if you use any other coolant.