

FTPublicity Client:
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Spring in the air at Cross

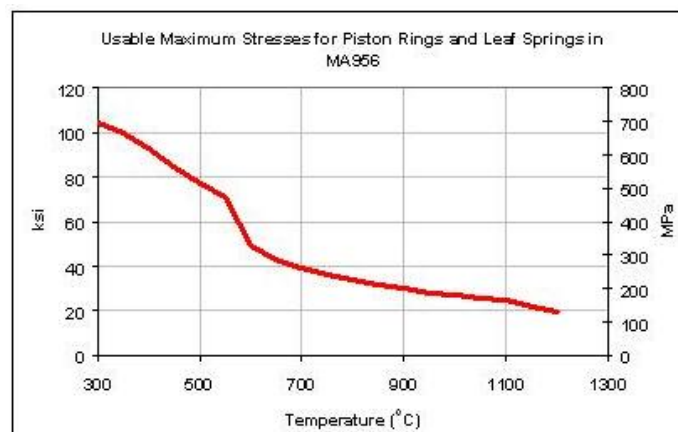
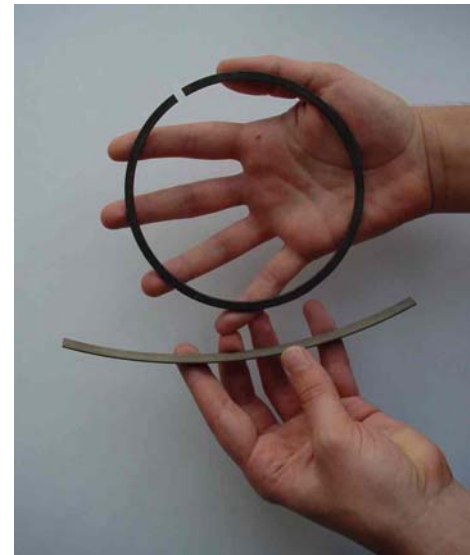
Who needs seals and springs that will operate for long periods at up to 1250°C?

Cross Manufacturing Company founded by Roland Cross in the 1920's to develop his Rotary Valve Engine now make piston rings. Most of them are used not on piston engines but as near-to-static seals to contain hot gases on gas turbines. The Laws of Physics force the engine designers to work at higher and higher temperatures and piston ring seals are regularly used for long periods at 700+°C. The nickel and cobalt alloys are the materials for these rings, but above 750°C for long periods they begin to collapse and do not perform properly.

The Company has now developed the use of a powder metallurgy alloy Incolloy MA956 and the results are impressive:- "Springiness" at 1100°C for long periods with good corrosion resistance in hot air.

The same properties that hold a piston ring "springily" against the bore can also be used to make leaf springs.

There must be important uses for it but where are they?



Issued on behalf of:
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