

Mo2 POWER PISTON RING FAQs

Question	Answer
Why should I choose a High-Performance (Mo2) kit instead of a standard kit?	The main benefit is a lowered risk of ring scuffing during the critical start-up period as well as for the remaining life of the ring. In addition, the ring will last longer thanks to the excellent wear resistance of the molybdenum layer.
Is it compatible with all cylinders?	Yes. We have installed it in cast iron, hard iron, nitrided, chrome-plated, and Thermalloy® coated cylinders without issues.
How long will the coating last on the ring?	The nickle-graphite (break-in) layer lasts 5,000-10,000 hours. The second layer of molybdenum has a much higher wear resistance that should extend the life of the ring kit significantly. More important, the ring will have much better scuffing resistance all through its life cycle including the critical start-up process.
Since it is a new coating, how can we be sure it is works? We don't want to be a test site.	The coating has been used in integral gas engines in the US since 2017, accumulating hundreds of thousands of cylinder hours. It has also been used in marine diesel engines for over 30 years.
Are the new rings dimensionally the same as traditional rings?	Yes. They are designed to fit the same ring grooves. End gap clearances and side gap clearances (required only for Cooper Bessemer rings) are on the kit build sheet.
Why aren't all rings the same material (top ones only are MO2; the others are uncoated)?	The top rings handle the combustion pressure. The 2nd ring doesn't need to be coated, but we do it to add a safety factor. The remaining rings serve other purposes (primarily oil control) and don't require the coating.
These rings look different, and the surface looks very rough. Will it damage the cylinder?	While the surface appears rough, it is also much softer than the cylinder surface so it will not scratch or wear the cylinder. The rough and porous nickle-graphite in the topcoat can retain oil, and the low hardness/strength allows it to break in and seat much quicker than other rings.