



**Spears Enterprises L.L.C. "The Sport Twin Specialist"** Kawasaki 400 piston kit by Spears Racing has a new 2 Ring FSR Slipper Skirt forging Piston. This drop in high compression kit includes pistons, rings, lighter wrist pins, cir clips . The compression is 12.7 to 1. This design is lighter than OEM and comes with 1mm o/s valve pockets and deeper pockets to allow the Spears Racing Camshafts to fit with this new design sets of piston rings. Piston Weight: 152 Grams Part Number SP01-400

## Important Specifications

### Important Clearance Information Guidelines Only

Set clearance to .0017

**(Some applications may require more clearance)**

Measure clearance 0.25 from bottom point of skirt

Piston to head clearance / Squish should be no less than .040

**\*\*The Squish Band or "Quench"\*\*** is defined as the area between the flat of the piston and the flat of the cylinder head at top dead center (TDC). On the compression stroke, as the piston approaches TDC, the compressed mixture of fuel and air is "squished" to the remaining space of the combustion chamber where the spark plug and valves reside. The "squeezing" of the mixture creates turbulence and is expected to promote a better and more complete combustion. Typical figures for this measurement are in the range of .040" to .045" which allows for rod stretch, carbon build-up and other variables. Pure race engines with short duration applications may reduce this figure to .025" as some builders are not happy till the pistons "kiss" the cylinder head. At .025" when you factor in high rpm rod stretch and piston "rock" at TDC you effectively reduce squish to zero.

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