

ABSTRACT OF THE DISCLOSURE

The present invention is to provide a refrigerant compressor comprising a compressing element driven by a rotary shaft, for compressing and discharging a sucked HFC
5 type refrigerant or refrigerant mainly comprising the HFC type refrigerant by the compressing element, where a rotary shaft applied with the plasma sulphonitriding treatment on the surface is used as the rotary shaft. Or a vane applied with the plasma sulphonitriding treatment on the surface of a
10 vane made of a steel equivalent to a high speed tool steel vane or a steel equivalent to a stainless steel is used. Accordingly, a refrigerant compressor comprising a rotary shaft or a vane having a low friction coefficient in a sliding portion on the surface of the rotary shaft or the
15 vane and a high wear resistance can be provided even in the case an ester type refrigerator oil or an ether type refrigerator oil is used as the refrigerator oil and an HFC type refrigerant is used.

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