



TSUBAKI EXTENDS PROVEN LUBE-FREE BENEFITS OF HEAT RESISTANT LAMBDA CHAIN INTO HIGH TEMPERATURE APPLICATIONS UP TO 230°C

Tsubaki is providing all the non-lube, low maintenance benefits of its well proven Lambda chain in a Heat Resistant (K-Lambda) version that has an operational temperature range from 150°C to 230°C. The new Heat Resistant K-Lambda shows no degradation at high temperatures and offers over four times the wear life of standard RS50 chain at 230°C.

The launch of K-Lambda extends the lube-free, minimum elongation characteristics of Lambda chain into applications such as heat sealing in packaging, semiconductor production, dry and steel furnaces and die casting - for components such as automotive parts. Previously these processes would have been served by standard chains with special lubricants, which were both costly and did not offer good wear life.

In tests performed in a 230°C environment, Tsubaki's K-Lambda chain achieved over four times the wear life of RS50 standard chain without additional special lubricant, and about three and half times the life of Tsubaki's standard Lambda chain, which is designed for room-temperature operation.

The lube free performance of K-Lambda at high temperatures is the result of a construction that employs special oil impregnated bushes. Besides, K-Lambda employs NSF H-1 Food Grade lubricant, ideal for applications where it is an industry requirement. The oil-impregnated bushes provide stable lubrication and anti-wear properties for the chain at high temperatures. The design also employs specially coated pins, solid rollers and inner plates that are coated with nickel.

In addition to its high temperature performance, K-Lambda is part of Tsubaki's eco-friendly chain group and has undergone a life cycle assessment LCA. This is a systematic evaluation of the environmental aspects of the product through all stages of its life cycle, from raw materials to waste management, including recycling and final disposal. With the majority of Lambda chains the LCA has revealed real ecological benefits, with CO₂ emissions reduced by 89.4%.