KAron V Data

I. Characteristics:

A. Nominal liner thickness: .010 to .015 in.(.25 to .38 mm), Max thickness .060 in.(1.52 mm)
B. Operating temperature range: -100° F to +300°F (-73 to +149°C)
C. Coefficient of friction range: .03 to .08, depending upon pressure, and velocity.
D. Compatible backing substrate materials: stainless steel, carbon steel, titanium, aluminum bronze, aluminum, phenolic, fiberglass, inconel and others.
E. Surface speeds to 10 fpm (3.0 m/min)

II. Physical Properties:

A.	Specific gravity:	1.363
B.	Density	1.360 gm/cc
C.	Hardness	Rockwell M 85/90
D.	Approximate Compression Modulus	7 x 10^5 psi (4,828 MPa)

III. Typical Load Carrying Capabilities:

A.	Static Ultimate *	100,000 psi (690 MPa)
B.	Static Limit **	67,000 psi (462 MPa)
C.	Dynamic (max.)	40,000 psi (276 MPa)
D.	Dynamic (continuous) ***	30,000 psi (207 MPa)

Notes:
* Equivalent to 1.5 times the static limit load, local liner distress may occur.
** Maximum load which will result in a permanent set in the liner no greater than .004 (0.10mm) inches after the load is applied for 3 minutes.
*** .006 inches (0.152 mm) maximum permitted wear after 5,000 cycles of oscillation at ± 25^o at 10 cpm (MIL-B-8943 requirement).
Typical liner thickness 0.012 in. (0.3 mm).

IV. Applicable Specifications:

MIL-B-8943 – bearings, sleeve, plain and flanged, TFE lined (MS21240 & 21241) (Kamatics KRJ-V & KRJ-UDV).

V. Typical Applications:

Marine environment (including rudder and pintle bearings as well as hydrofoil strut pivot bearings), airframe controls, track and cam rollers and industrial applications requiring high load carrying capability and self-lubricating features.