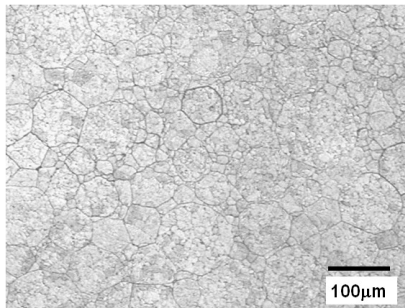




From flat plate through complete knife blanks, we supply everything you need to make one-of-kind SM-100 knives.



SM-100's super-fine microstructure is property performance optimized to provide longer lasting edges and unparalleled cutting performance.

Summit Materials, LLC

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SM-100™

Your competitive edge!™

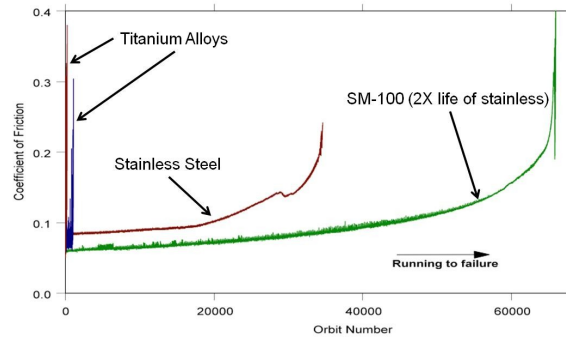


In the 1960's the U.S. Naval Ordnance Laboratory serendipitously discovered an alloy destined to revolutionize the way we think of, and use, metal. This mystical alloy was lighter than steel, non-magnetic, non-corrosive even in the harshest environments, and had extremely high through-section hardness. Despite these amazing properties, and quite successful laboratory trials, the metal's fickle behavior prohibited it from being conventionally processed in a production environment and thus it dropped from everyone's radar—until now.

Summit Materials and Strider Knives have developed a variant of the alloy (SM-100) and the accompanying processing maps to successfully manufacture the material for the tactical knife community. The features that make the material so attractive include:

- Corrosion proof (defined by NASA)
- High hardness (>62 HRC)
- Lightweight
- Superb edge retention
- Non-Magnetic
- Conductive
- High strength
- Super elastic behavior

SM-100 has proven to be so phenomenal in wear and corrosion tests that NASA recently constructed programs around the material and, as shown in the following figure, it has proven to have twice the life of the best stainless steels and well over ten times the life of premium titanium alloys—all while having a significantly lower coefficient of friction—this is why you'll see it used in the space station soon.



A Material Property Comparison			
	SM-100	440C	CPM 3V
Density (g/cc)	6.7	7.8	7.8
Hardness	57—64 HRC	58—62 HRC	58—60 HRC
Corrosion Resistance	Excellent	Marginal	Poor
Magnetic	Non	Mag.	Mag.

The threshold load for damage for SM-100 is at least an order of magnitude higher than the best materials currently in use.—NASA report