

**RECOMMENDED MAXIMUM OPERATING TEMPERATURES
FOR VARIOUS SHEATH MATERIALS AND HEATER CONSTRUCTION**

HEATER TYPE	SHEATH MATERIAL	MAXIMUM TEMPERATURE °F
TUBULAR	* COPPER	350° F
	ALUMINUM	500° F
	* STEEL	750° F
	* STAINLESS STEEL	1200° F
	* INCOLOY®	1600° F
	INCONEL	1700° F
FINNED TUBULAR	* STEEL WITH ALUMINUM FINISH	800° F
	* STAINLESS STEEL	1200° F
THUNDERBOLT	STAINLESS STEEL	1200° F
	* INCOLOY®	1600° F
	INCONEL	1700° F
CARTRIDGE	* STAINLESS STEEL	1200° F
STRIP	* STEEL	750° F
	* STAINLESS STEEL	1200° F
FINNED STRIP	* STEEL	750° F
	* STAINLESS STEEL	1200° F

* INDICATES STANDARD SHEATH MATERIALS AVAILABLE FOR EACH PRODUCT TYPE.
APPLICATION MATERIAL HEATED MAY HAVE TEMPERATURE LIMITATIONS LOWER THAN ALLOWED BY HEATER SHEATH CONSTRUCTION.
PLEASE REFER TO "WATT DENSITY CHART" FOR SPECIFIC MAXIMUM WATT DENSITY VALUES.
SEE "APPLICATION DESIGN CONSIDERATIONS" FOR ADDITIONAL CRITICAL ISSUES.