

# STANDARDS UPDATE NOTICE (SUN) ISSUED: January 10, 2025

## **STANDARD INFORMATION**

#### Standard: UL 1030

**Standard ID:** Sheathed Heating Elements [UL 1030:2015 Ed.8+R:26Jun2024] **Previous Standard ID:** Sheathed Heating Elements [UL 1030:2015 Ed.8+R:31Oct2019]

## **EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS**

#### Effective Date: June 26, 2026

### **IMPACT, OVERVIEW, AND ACTION REQUIRED**

**Impact Statement:** Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

**Overview of Changes:** Addition of new sheathed heating element materials. Specific details of new/revised requirements are found in table below.

*Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.* 



## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined out</del> below.
14	Info	Temperature Test
14.1	Info	At the completion of the thermal endurance test described in Section 13, Thermal Endurance Test, the supply voltage is to be adjusted to the input test voltage. After temperatures have stabilized, see 9.3, the temperature of the sheath shall not exceed the applicable limit specified in Table 14.1. See 6.1 and 6.2.
		Exception: Table 14.1 specifies the maximum acceptable sheath temperatures for heating elements used in air. Higher temperatures are capable of being used, based upon the particular end-use application of the heating element.

Material			Maximum temperature		
		°F	°C		
A. META	A. METALLIC MATERIALS				
1.	Copper	350	177		
2.	Aluminum	500	260		
3.	Brass	750	399		
4.	Cold rolled steel	750	399		
5.	Nickel Silver	1000	538		
6.	Stainless steel <sup>a</sup>				
	a. Types <u>30</u> 1, 302, 303, 304 <u>, 304L, 305, 308</u> , 316, <u>316L</u> , <u>316N, 316Ti, 317, 317L</u> , 321, <u>329, 330</u> , 347, <u>347M</u> , <u>348</u>	1400	760		
	b. Type <u>309</u> , 309S	1500	816		
	c. Type 310, <u>310S, 314</u>	1600	871		
	d. Types 403, 405, <u>409</u> , 410, <u>414</u> , 416, <u>420, 422, 429,</u> <u>431</u> , 501	1200	649		
	e. Type 430, <u>430F, 439F</u>	1300	704		
	f. Type 442, <u>444</u>	1400	760		
	g. Type 446	1500	816		
	h. <u>Type 926<sup>d</sup></u>	<u>1400</u>	<u>760</u>		
7.	Nickel alloys <sup>b</sup>				
	a. Alloy <u>200</u> , 400	900	482		

Table 14.1

# (in)

CLAUSE	VERDICT	COMMENT			
		b. Alloy 600, <u>601, 625, 7128, X-750, C-276</u>	1800	982	
		c. Alloy 800, <u>800H, A286</u>	1700	927	
		d. Alloy 825	1100	593	
		e. Alloy 840, <u>841</u>	1700	927	
		Material	Maximum		
				temperature	
			°F	°C	
		8. Cast iron	1200	649	
		9. Titanium	750	399	
		B. NONMETALLIC MATERIALS <sup>c</sup>	Recog	nized	
			tempe	rature	
			rati	ing	
		a American Iron and Steel Institute (AISI) type designations.			
		b American Society of Mechanical Engineers (ASME) type designations.			
		c Includes but is not limited to insulated wire, polymeric materials, bushings, washers, end seals, and other components.			
		d Intended for use only submersed in water.			