Proposed Revisions for 15-477 (4-14-2020)

UG-84(h)(2)(c):

(-c) meet the minimum notched toughness requirements of (c)(4) for the thickest material of the range of base material qualified by the procedure (see Figure UG-84.1).

UNF-3 USES

Some of the uses of nonferrous materials are to resist corrosion, to facilitate cleaning of vessels for processing foods, to provide strength or scaling-resistance at high temperatures, and to provide notch toughness at low temperatures.

UHA-51(a)(3)

(3) When the MDMT is colder than −320°F (−196°C), production welding processes shall be limited to shielded metal arc welding (SMAW), gas metal arc welding (GMAW), submerged arc welding (SAW), plasma arc welding (PAW), and gas tungsten arc welding (GTAW). Each heat, lot, or batch of filler metal and filler metal/flux combination shall be pre-use tested as required by (f)(4)(a) through (f)(4)(c). Exemption from pre-use testing as allowed by (f)(4)(d) and (f)(4)(e) is not applicable. Notch toughness testing shall be performed as specified in (-a) or (-b) below, as appropriate.

3.11.4.2(c)

(c) When the MDMT is colder than −196°C (−320°F), production welding processes shall be limited to shielded metal arc welding (SMAW), gas metal arc welding (GMAW), submerged arc welding (SAW), plasma arc welding (PAW), and gas tungsten arc welding (GTAW). Each heat, lot, or batch of filler metal and filler metal/flux combination shall be pre-use tested as required by 3.11.4.5(d)(1) through 3.11.4.5(d)(3). Exemption from pre-use testing as allowed by 3.11.4.5(d)(4) and 3.11.4.5(d)(5) is not applicable. Notch toughness testing shall be performed as specified in (1) or (2) below, as appropriate.