



## Qualification Test Record (QTR) NORSOK M-650

QTR. No.:  
NORSOK-254SMO



Rev. No.: 2

<b>Manufacturer name/address/ Web page:</b>	Highland Foundry Ltd. 9670-187 <sup>th</sup> Street, Surrey, British Columbia V4N 3N6 Canada Ph: 604-888-8444, Fax: 604-888-3634 <a href="http://www.highlandfoundry.com">www.highlandfoundry.com</a>	
<b>Reference standard</b>	NORSOK M-650 Edition 4	
<b>Material designation and MDS No.:</b>	NORSOK M-630 Edition 6, MDS-R16 Revision 5 ASTM A351 Grade CK3MCuN, UNS J93254	
<b>Manufacturing summary doc. No.:</b>	MS- NORSOK-254SMO	Rev. No.: 2
<b>Products and manufacturing process(es):</b>	Castings. Sand Molding with Furan Binder. AOD Route: Re-melting of 100% AOD refined charge material. Production to follow the process of the approved QTR.	
<b>Mandatory conditions and sub-contractors:</b>	Castings shall be heat treated in Oven #1 or Oven #5. Raw Material supplier shall be: AOD plate scrap or AOD ingot supplied: <b>Remelt Sources Inc.</b> , Allied Metals Corp. or <b>Kairos Specialty Metals</b> . RT (personnel EC qualified) shall be by <b>Acuren Group Inc.</b> , <b>Stasuk Testing &amp; Inspection Ltd.</b> , or <b>Elander Inspections</b> . Pickling shall be by Redi-Strip. <b>Laboratory testing:</b> HFL shall machine and perform testing (acceptance "Annex 1: ISO 17025 Assessment of test laboratories" – M-650 Edition 4: Comment & Clarification list) <b>3<sup>rd</sup> party ISO 17025 laboratory testing, when required, shall be by Acuren Group Inc.</b> , or Cambridge Materials Testing.	
<b>Other information:</b>	NORSOK 254SMOAOD qualification witnessed by Lloyd's Register Vancouver, B.C. Canada	
<b>Qualification expires</b>	January 6, 2026	


### Tested and Qualified Thickness and Weight (NORSOK M-650 Ed. 4 Section 10.2.2)

Products and manufacturing process(es):	Test record No.	Tested thickness mm (in.)	Qualified thickness mm (in.)	Test piece weight Kg (lbs)	Qualified weight Kg (lbs)
Castings	NORSOK-254SMO	95 (3.75)	95 (3.75)	340 (750)	All

### Qualification/Acceptance signatures

<b>Manufacturer:</b>	<b>Prepared by/Date:</b>   Bryan L. Almendral Date: Jan. 6, 2021	<b>Checked by/Date:</b>   Lina Grajales Date: Jan. 6, 2021
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*The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for their products within the essential variables of NORSOK M-650.*

<b>Qualified/Accepted by (company name/address):</b>  <b>Curtiss Wright Farris Engineering</b> <b>10195 Brecksville Road</b> <b>Brecksville, OH 44141</b> <b>USA</b>	<b>Signature/Date:</b>   Mark H. Schwaner Date: Jan. 6, 2021
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