
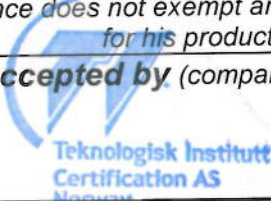
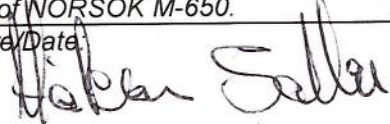


Manufacturer logo 	QTR Qualification Test Record NORSOK M-650		QTR. No.: 01/15		
			Rev. No.:00		
Manufacturer name/address/ Web page:	Villares Metals S.A. / Vereador Antonio Pereira de Camargo Neto Av., Nº 770, Jd. Santa Carolina, ZIPCODE 13178-021, Sumaré, São Paulo state, Brazil / www.villaresmetals.com.br				
Reference standard	NORSOK M-650 Rev. 4				
Material designation and MDS No.:	UNS S32760 / WNr. 1.4501 and MDS D57 Rev.5				
Manufacturing summary doc. No.:	01/15			Rev. No.:00	
Products and manufacturing process(es):	Rolled Round Bars and Hot Rolling				
Mandatory conditions and sub-contractors:	NA				
Other information:	Heat Treatment furnace Guinea Nº 07				
Qualification expires:	March 03 th 2021				
Tested and Qualified Thickness and Weight					
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Rolled Round Peeled Bars	1680723	Rd. 165,00	Rd. 165,00	1100	All
Qualification/Acceptance signatures					
Manufacturer: Villares Metals	Prepared by/Date: Ricardo Machado Lucianetti 22/02/2016		Checked by/Date: Magno Pereira Delgado 22/02/2016		
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 his products within the essential variables of NORSOK M-650.					
Qualified/Accepted by (company name/address): 			Signature/Date:  04.03.2016		

MANUFACTURING SUMMARY 01/12 REV. 00

Plant and Location: Plant located at Sumaré, São Paulo state, Brazil. Equipment facilities: Electric Arc Furnace (02), Ladle Furnace (02), VOD (01), Forging Presses, Rolling Mill (Blooming, Billet and Finishing Mill), Electric and Gas Heat Treatment Furnaces, Finishing Shop.

Products: Rolled Round Peeled Bar

Specifications: NORSOK M-630 Rev. 6 MDS D57 Rev. 5 / EN10088-3 / ASTM A276 / ASTM A479 / NACE MR0175/ISO 15156

Limitations in the procedure:

Weight: 15 t per heat

Length: 3000 – 6000 mm

Thickness: 10,00 – 165,00 mm

Qualification Documentation: Manufacturing Summary N4501 01/15 Rev.00 / Inspection Plan / Flow Chart / Test Report and Specific Reference List

<i>Revision</i>	<i>Date</i>	<i>Made by:</i>	<i>Checked by:</i>	<i>Approved by:</i>
00	22/02/16	Ricardo Machado Lucianetti	Magno Pereira Delgado	Augusto Cesar Ferreira Lara

Manufacturing Summary Nº: 01/15