

	Qualification Test Record NORSOK M-650 Edition 4			QTR. No.: 3	
				Rev. No. 10	
Manufacturer name/address/ Web page:	Officine Ambrogio Melesi Largo de Vecchi 11 – 23813 - Cortenova (Lecco) Italy www.melesi.it				
Reference standard	Norsok M-650 Edition 4 ; Norsok M-630 Edition 7, ISO 17781:2017, IOGP-S-563 v.2021				
Material designation and MDS No.:	ASTM A 182 F55; MDS D54 Rev.6; MDS DH54 Rev.1; MDS ID254/ID254S Rev.2				
Manufacturing summary doc. No.:	MS 11 - MS 12 – MS 13 – MS 14 – MS 15			Last Revision	
Products and manufacturing process(es):	- CLOSE DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY SCREW PRESSE AND MAXI PRESSE (MS 11) - CLOSE DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY CLOSE DIE HAMMER FORGING (MS 12) - OPEN DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY OPEN DIE HYDRAULIC PRESSE (MS 13) - OPEN DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY OPEN DIE HAMMER FORGING (MS 14) - RING ROLLED WN FLANGES, HUBS, SPECTACLE BLIND, RING SPACERS, SPECIAL PIECES, PRODUCTION ROUTE BY FORGING PRESSE AND RING ROLLING (MS 15)				
Mandatory conditions and sub-contractors:	- Heat treatment loading shall be according to methods in sketches of Melesi heat treatment procedure TT04 L.R. - NDE Ultrasonic test for compliance to MDS DH54 shall be performed by sub-supplier's ISO 9712 qualified operators.				
Other information:	- Heat treatment verifications according to M-650 Para.9.3 performed under witness by MRC – latest tests performed January 2024. - Melesi laboratory is accredited to ISO17025.				
Qualification Expires:	December 2026 with MRC annual verification & renewal as per point 4 below				
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)
SCREW AND MAXI PRESS (MS 11)	34405-34537-34538	82.6	82.6	95	190
CLOSE DIE HAMMER (MS 12)	34543-74051	184.1	184.1	950	ALL
OPEN DIE HYDRAULIC PRESS (MS 13)	34632	165	165	650	ALL
OPEN DIE HAMMER FORGING (MS 14)	34633-74052	54	59.4	60	120
FORGING AND RING (MS 15)	34634	203.2	203.2	2050	NA
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: Alfredo Randazzo 01.09.2025.		Checked by/Date: Pietro Nava 01.09.2025.		
Remarks/Special remarks: - 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. - This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other purchasers. - In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.					
Qualified/Accepted by (company name/address): MRC Global Norway AS Gamle Forusveien 53 4033 STAVANGER			Initial approval date: 06.12.2021 Expiry date (annual renewal): 06.12.2026 Signature: <i>Mika Buxentius</i>		

Note: QTR is updated to R4.03 as of 15 years from M-650 Ed.4.

Buxentius