


	QUALIFICATION TEST RECORD (QTR)				QTR No.: INNO/QTR/01
	NORSOK M-650				Rev No.: 01
Manufacturer name/address/ Webpage:	Innoforge Pvt. Ltd., Shed # B2/2, Sidco Industrial Estate, Phase - 1, Hosur - 635126, Tamilnadu, India. www.innoforge.net, Email: innoforge@gmail.com, mktg@innoforge.net & mrajavelu@innoforge.net				
Reference standard	NORSOK M-650 Edition.4 2011				
Material designation and MDS No.:	ASTM A182/ASME SA182 Gr.F51 (UNS S31803) / Gr.F60 (UNS S32205)-2023 & NORSOK M-630:2020 MDS D44 Rev.06 & MDS DH44 Rev.01				
Manufacturing summary doc. No.:	INNO/MS/01	Rev No.: 01			
Products and manufacturing processes:	Open Die & Ring Rolled Forgings Open Die forged : Flanges, Bars, Discs, Rings & Valve components etc.				
Mandatory conditions and sub-contractors:	1. All testings Chemical, Mechanical and Metallurgical tests at M/s. Microlab, Hosur & Chennai. 2. Laboratory Accredited by NABL in accordance with ISO/IEC 17025. 3. Heat Treatment (Solution annealing) carried out at In-house. 4. Product thickness covering above 300 mm shall be subject to the agreement by the qualified company and customer technical requirements.				
Other information :	NDT - Ultrasonic & Penetrant test carried out for Forgings.				
Qualification expires:	12-01-2029				
Tested and qualified thickness and weight					
Products and Manufacturing Processes:	Test Record no.	Tested Thickness mm	Qualified Thickness mm	Test piece Weight kg	Qualified Weight kg
Forged Flanges (Weld neck, Blind, Companion flanges etc.)	5054/19-20	120	upto 120	180	G + 100 % = 360
	5055/19-20	160	upto 160	275	All
Forged Bars (Shafts, stepped shafts, Pins, Bonnets, Body, piston etc.)	5056/19-20	120	upto 120	100	G + 100 % = 200
	8178/23-24	380	upto 380	445	All
Forged Discs (Blanks, Blank Plates, Cover, Spacer, Plug, Retainer Plate, etc.)	5058/19-20	120	upto 120	130	G + 100 % = 260
	8177/23-24	490	upto 490	755	All
Ring Forgings (Ring, Seat ring, segment ring, Retainer ring, Body ring etc.)	5060/19-20	100	upto 110	100	G + 100 % = 200
	5061/19-20	250	upto 250	285	All
Qualification/acceptance signatures					
Manufacturer	Prepared by/Date: 13.01.2024		Checked by/Date: 13.01.2024		
Innoforge Pvt. Ltd	 N. Chandrasekar (Sr. Manager-Quality)		 M. Rajavelu (Managing Director)		
The manufacturer and this QTR are evaluated and found to be in compliance with 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: M/s. TUV india Private Limited, 116, Ground Floor, West of Chord Road, 1st Block 2nd stage, Rajajinagar, Bangalore-560086			Signature/Date:  Sridhar 13/01/2024		