

CERTIFIED RECORD OF CHEMICAL AND MECHANICAL PROPERTIES

1/4" THROUGH 5/8" MANUFACTURED FROM 1006-1010 STEEL 3/4" THROUGH 1" MANUFACTURED FROM 1006 - 1010 OR A36 STEEL										
----- ALL ALL-THREAD ROD WILL MEET MINIMUM TENSILE & YIELD REQUIREMENTS OF ASTM A307 GRADE C										
ITEM	MANUFACTURER			MATERIAL AS DESCRIBED ON INVOICE						
1	VULCAN THREADED PRODUCTS			1/4"-20 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
2	VULCAN THREADED PRODUCTS			5/16"-18 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
3	VULCAN THREADED PRODUCTS			3/8"-16 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
4	VULCAN THREADED PRODUCTS			1/2"-13 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
5	VULCAN THREADED PRODUCTS			5/8"-11 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
6	VULCAN THREADED PRODUCTS			3/4"-10 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
7	VULCAN THREADED PRODUCTS			7/8"-09 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
8	VULCAN THREADED PRODUCTS			1"-08 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES						
ITEM	HEAT#	CARBON	MANG.	PHOS.	SULPHUR	SILICON	CHROM.	NICKEL	MOLY.	COPPER
1	65800	.06	.47	.006	.010	.15	.06	.09	.02	.20
2	64241	.06	.45	.011	.024	.12	.15	.10	.03	.26
3	26863	.06	.40	.016	.025	.12	.13	.14	.00	.26
4	26864	.07	.42	.013	.02	.13	.10	.11	.00	.21
5	1030122	.04	.43	.018	.034	.11	--	--	--	--
6	65197	.17	.67	.014	.016	.18	.14	.10	.03	.32
7	62286	.22	.90	.006	.025	.23	.05	.07	.02	.16
8	62260	.15	.72	.012	.026	.19	.07	.08	.02	.21
ITEM	HEAT #	TENSILE PSI		YIELD PSI	%ELONGATION 8" GAGE	REDUCTION OF AREA	BEND TEST			
1	65800	62,200		-----	-----	-----	-----			
2	64241	61,500		-----	-----	-----	-----			
3	26863	60,915		40,053	36.0	-----	-----			
4	26864	61,641		40,611	34.0	-----	-----			
5	1030122	58,853		39,885	40.0	-----	-----			
6	65197	73,700		51,200	32.0	-----	-----			
7	62286	78,600		50,700	31.0	-----	-----			
8	62260	69,100		45,800	27.0	-----	-----			

WE HEREBY CERTIFY THAT THE FOREGOING DATA IS A TRUE COPY OF THE DATA FURNISHED BY THE PRODUCING MILL.
ALL DATA SUPPLIED IN THE ABOVE TEST REPORT ARE TYPICAL OF MATERIAL FURNISHED BY VULCAN THREADED PRODUCTS.

DATE: 1-18-09

VULCAN THREADED PRODUCTS

#10 CROSSCREEK TRAIL

PELHAM, AL 35124

By: Jeff Hayes

PH (205) 620-5100

AUTHORIZED AGENT
QUALITY CONTROL SUPERVISOR

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CERTIFIED RECORD OF CHEMICAL AND MECHANICAL PROPERTIES

1-1/8" THROUGH 2" MANUFACTURED FROM 1018 or A36 STEEL 2-1/4" THROUGH 2-1/2" MANUFACTURED FROM 1018 or A36 STEEL										
----- ALL ALL-THREAD ROD WILL MEET MINIMUM PHYSICAL AND CHEMICAL REQUIREMENTS OF ASTM A307 GRADE C										
ITEM	MANUFACTURER			MATERIAL AS DESCRIBED ON INVOICE						
1	VULCAN THREADED PRODUCTS			1-1/8"-7 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
2	VULCAN THREADED PRODUCTS			1-1/4"-7 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
3	VULCAN THREADED PRODUCTS			1-3/8"-6 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
4	VULCAN THREADED PRODUCTS			1-1/2"-6 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
5	VULCAN THREADED PRODUCTS			1-3/4"-5 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
6	VULCAN THREADED PRODUCTS			2"-4.5 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
7	VULCAN THREADED PRODUCTS			2-1/4"-4 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
8	VULCAN THREADED PRODUCTS			2-1/2"-4 LOW CARBON STEEL THREADED ROD MELTED AND MANUFACTURED IN THE UNITED STATES						
ITEM	HEAT#	CARBON	MANG	PHOS.	SULPHUR	SILICON	CHROM.	NICKEL	MOLY.	COPPER
1	5899I1120	.20	.80	.015	.026	.22	.10	.09	.03	.43
2	5899I5771	.17	.70	.02	.036	.16	.12	.10	.04	.41
3	3199I3248	.20	.60	.012	.040	.21	.11	.09	.04	.37
4	3199I3251	.18	.60	.012	.037	.21	.13	.10	.04	.33
5	151115	.14	.78	.008	.023	.21	.07	.15	.034	.37
6	151438	.17	.82	.005	.017	.23	.06	.09	.016	.21
7	681952	.18	.77	.01	.03	.22	-----	-----	-----	-----
8	640723	.18	.70	.02	.04	.22	-----	-----	-----	-----
HEAT #	TENSILE PSI MIN	YIELD PSI MIN	%ELONGATION 8" GAGE MIN %		REDUCTION OF AREA MIN %					
5899I1120	77,400	52,100	27		-----		-----	-----	-----	-----
5899I5771	72,400	49,600	24		-----		-----	-----	-----	-----
3199I3248	71,338	48,408	25		-----		-----	-----	-----	-----
3199I3251	75,796	48,408	23		-----		-----	-----	-----	-----
151115	68,000	46,900	47		-----		-----	-----	-----	-----
151438	70,100	49,700	52		-----		-----	-----	-----	-----
681952	92,300	85,400	16		-----		-----	-----	-----	-----
640723	89,500	80,550	15		-----		-----	-----	-----	-----

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