

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-1XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGf*M	BAR	P.S.I	FT./LBS.	nM	KGf*M
14	200	29	39	4	359	5,200	705	956	98
28	400	57	78	8	372	5,400	733	994	102
41	600	86	116	12	386	5,600	760	1,031	106
55	800	114	155	16	400	5,800	788	1,068	109
69	1,000	143	194	20	414	6,000	815	1,105	113
83	1,200	169	229	24	427	6,200	843	1,143	117
97	1,400	195	264	27	441	6,400	871	1,181	121
110	1,600	220	299	31	455	6,600	900	1,220	125
124	1,800	246	334	35	469	6,800	928	1,258	129
138	2,000	272	369	38	483	7,000	956	1,296	133
152	2,200	299	405	42	496	7,200	983	1,333	136
165	2,400	326	442	46	510	7,400	1,010	1,369	140
179	2,600	353	479	49	524	7,600	1,037	1,406	144
193	2,800	380	515	53	538	7,800	1,064	1,443	148
207	3,000	407	552	57	552	8,000	1,091	1,479	151
221	3,200	435	589	61	565	8,200	1,120	1,519	155
234	3,400	462	627	64	579	8,400	1,149	1,558	159
248	3,600	490	664	68	593	8,600	1,179	1,598	163
262	3,800	517	702	72	607	8,800	1,208	1,638	167
276	4,000	545	739	76	621	9,000	1,237	1,677	172
290	4,200	572	775	80	634	9,200	1,266	1,716	176
303	4,400	598	811	83	648	9,400	1,295	1,756	180
317	4,600	625	847	87	662	9,600	1,324	1,795	184
331	4,800	651	883	91	676	9,800	1,353	1,834	188
345	5,000	678	919	94	690	10,000	1,382	1,874	192

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-3XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGF*M	BAR	P.S.I	FT./LBS.	nM	KGF*M
14	200	55	74	8	359	5,200	1,565	2,122	217
28	400	110	149	16	372	5,400	1,626	2,205	225
41	600	164	223	23	386	5,600	1,688	2,288	234
55	800	219	297	31	400	5,800	1,749	2,371	242
69	1,000	274	371	38	414	6,000	1,810	2,454	251
83	1,200	336	455	47	427	6,200	1,872	2,538	259
97	1,400	397	539	55	441	6,400	1,934	2,623	268
110	1,600	459	622	64	455	6,600	1,997	2,707	277
124	1,800	520	706	72	469	6,800	2,059	2,791	285
138	2,000	582	789	81	483	7,000	2,121	2,876	294
152	2,200	642	870	89	496	7,200	2,180	2,956	302
165	2,400	701	951	97	510	7,400	2,239	3,036	310
179	2,600	761	1,032	106	524	7,600	2,298	3,116	318
193	2,800	820	1,112	114	538	7,800	2,357	3,196	326
207	3,000	880	1,193	122	552	8,000	2,416	3,276	335
221	3,200	942	1,277	131	565	8,200	2,479	3,362	343
234	3,400	1,003	1,360	139	579	8,400	2,543	3,448	352
248	3,600	1,065	1,444	148	593	8,600	2,606	3,534	361
262	3,800	1,126	1,527	156	607	8,800	2,670	3,619	370
276	4,000	1,188	1,611	165	621	9,000	2,733	3,705	378
490	4,200	1,251	1,696	173	634	9,200	2,793	3,786	387
303	4,400	1,314	1,782	182	648	9,400	2,852	3,867	395
317	4,600	1,378	1,868	191	662	9,600	2,912	3,948	403
331	4,800	1,441	1,953	200	676	9,800	2,971	4,029	411
345	5,000	1,504	2,039	208	700	10,000	3,031	4,109	420

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-6XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGF*M	BAR	P.S.I	FT./LBS.	nM	KGF*M
14	200	113	153	16	359	5,200	2,726	3,696	377
28	400	226	306	32	372	5,400	2,831	3,838	392
41	600	338	459	47	386	5,600	2,935	3,980	406
55	800	451	612	63	400	5,800	3,040	4,122	421
69	1,000	564	765	78	414	6,000	3,145	4,264	435
83	1,200	665	901	92	427	6,200	3,251	4,407	450
97	1,400	765	1,037	106	441	6,400	3,357	4,551	465
110	1,600	866	1,174	120	455	6,600	3,462	4,694	479
124	1,800	966	1,310	134	469	6,800	3,568	4,838	494
138	2,000	1,067	1,447	148	483	7,000	3,674	4,981	508
152	2,200	1,173	1,591	163	496	7,200	3,778	5,123	523
165	2,400	1,280	1,735	177	510	7,400	3,883	5,264	537
179	2,600	1,386	1,879	192	524	7,600	3,987	5,406	552
193	2,800	1,493	2,024	207	538	7,800	4,092	5,547	566
207	3,000	1,599	2,168	222	552	8,000	4,196	5,689	581
221	3,200	1,701	2,307	236	565	8,200	4,304	5,835	596
234	3,400	1,804	2,446	250	579	8,400	4,412	5,981	610
248	3,600	1,906	2,584	264	593	8,600	4,519	6,127	625
262	3,800	2,009	2,723	278	607	8,800	4,627	6,274	640
276	4,000	2,111	2,862	292	621	9,000	4,735	6,420	655
290	4,200	2,213	3,000	306	634	9,200	4,810	6,521	666
303	4,400	2,315	3,139	321	648	9,400	4,885	6,623	676
317	4,600	2,417	3,277	335	662	9,600	4,960	6,725	686
331	4,800	2,519	3,415	349	676	9,800	5,035	6,827	697
345	5,000	2,621	3,554	363	690	10,000	5,110	6,928	707

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-8XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGF*M	BAR	P.S.I	FT./LBS.	nM	KGF*M
14	200	170	230	24	359	5,200	4,504	6,107	623
28	400	339	460	47	372	5,400	4,664	6,323	645
41	600	509	690	71	386	5,600	4,823	6,539	667
55	800	678	920	94	400	5,800	4,983	6,756	689
69	1,000	848	1,150	118	414	6,000	5,142	6,972	711
83	1,200	1,024	1,388	142	427	6,200	5,330	7,227	737
97	1,400	1,200	1,626	166	441	6,400	5,518	7,481	763
110	1,600	1,375	1,865	191	455	6,600	5,706	7,736	789
124	1,800	1,551	2,103	215	469	6,800	5,894	7,991	815
138	2,000	1,727	2,342	239	483	7,000	6,082	8,246	841
152	2,200	1,893	2,567	262	496	7,200	6,255	8,480	865
165	2,400	2,059	2,792	285	510	7,400	6,427	8,714	889
179	2,600	2,225	3,017	308	524	7,600	6,600	8,948	913
193	2,800	2,391	3,242	331	538	7,800	6,772	9,182	937
207	3,000	2,557	3,467	354	552	8,000	6,945	9,416	961
221	3,200	2,736	3,710	379	565	8,200	7,087	9,609	980
234	3,400	2,915	3,952	404	579	8,400	7,230	9,802	1,000
248	3,600	3,094	4,195	428	593	8,600	7,372	9,995	1,020
262	3,800	3,273	4,438	453	607	8,800	7,515	10,188	1,039
276	4,000	3,452	4,680	478	621	9,000	7,657	10,382	1,059
290	4,200	3,631	4,922	502	634	9,200	7,835	10,622	1,084
303	4,400	3,809	5,165	527	648	9,400	8,012	10,863	1,108
317	4,600	3,988	5,407	552	662	9,600	8,190	11,104	1,133
331	4,800	4,166	5,649	577	676	9,800	8,367	11,345	1,157
345	5,000	4,345	5,891	601	700	10,000	8,545	11,585	1,182

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES SQUARE DRIVE WRENCH

## SU-11XL TORQUE CHART 10,000 P.S.I. & 700 BAR +/- 3%

BAR	P.S.I	FT./LBS.	nM	KGF*M	BAR	P.S.I	FT./LBS.	nM	KGF*M
14	200	208	281	29	359	5,200	5,556	7,533	769
28	400	415	563	58	372	5,400	5,774	7,829	799
41	600	623	844	87	386	5,600	5,992	8,124	829
55	800	830	1,126	115	400	5,800	6,210	8,420	859
69	1,000	1,038	1,407	144	414	6,000	6,428	8,715	889
83	1,200	1,254	1,700	174	427	6,200	6,646	9,011	919
97	1,400	1,470	1,993	204	441	6,400	6,865	9,307	950
110	1,600	1,686	2,286	234	455	6,600	7,083	9,604	980
124	1,800	1,902	2,579	263	469	6,800	7,302	9,900	1,010
138	2,000	2,118	2,872	293	483	7,000	7,520	10,196	1,040
152	2,200	2,329	3,158	323	496	7,200	7,738	10,492	1,070
165	2,400	2,540	3,444	352	510	7,400	7,957	10,788	1,101
179	2,600	2,752	3,731	381	524	7,600	8,175	11,084	1,131
193	2,800	2,963	4,017	410	538	7,800	8,394	11,380	1,161
207	3,000	3,174	4,303	439	552	8,000	8,612	11,676	1,191
221	3,200	3,389	4,595	469	565	8,200	8,831	11,973	1,221
234	3,400	3,604	4,886	499	579	8,400	9,050	12,270	1,252
248	3,600	3,819	5,178	528	593	8,600	9,269	12,567	1,282
262	3,800	4,034	5,469	558	607	8,800	9,488	12,864	1,312
276	4,000	4,249	5,761	588	621	9,000	9,707	13,161	1,343
290	4,200	4,467	6,056	618	634	9,200	9,924	13,455	1,373
303	4,400	4,685	6,351	648	648	9,400	10,141	13,750	1,403
317	4,600	4,902	6,647	678	662	9,600	10,359	14,044	1,433
331	4,800	5,120	6,942	708	676	9,800	10,576	14,339	1,463
345	5,000	5,338	7,237	739	700	10,000	10,793	14,633	1,493

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-20XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGF*M	BAR	P.S.I	FT./LBS.	nM	KGF*M
14	200	351	475	49	359	5,200	9,417	12,768	1,303
28	400	701	951	97	372	5,400	9,793	13,277	1,354
41	600	1,052	1,426	146	386	5,600	10,168	13,786	1,406
55	800	1,402	1,901	194	400	5,800	10,544	14,295	1,458
69	1,000	1,753	2,377	243	414	6,000	10,919	14,804	1,510
83	1,200	2,125	2,881	294	427	6,200	11,248	15,251	1,556
97	1,400	2,497	3,385	346	441	6,400	11,577	15,697	1,601
110	1,600	2,868	3,889	397	455	6,600	11,907	16,143	1,647
124	1,800	3,240	4,393	448	469	6,800	12,236	16,590	1,692
138	2,000	3,612	4,897	500	483	7,000	12,565	17,036	1,738
152	2,200	3,940	5,342	545	496	7,200	12,922	17,520	1,787
165	2,400	4,268	5,787	591	510	7,400	13,279	18,004	1,836
179	2,600	4,597	6,232	636	524	7,600	13,636	18,488	1,886
193	2,800	4,925	6,677	681	538	7,800	13,993	18,972	1,935
207	3,000	5,253	7,122	727	552	8,000	14,350	19,456	1,984
221	3,200	5,654	7,665	782	565	8,200	14,718	19,956	2,035
234	3,400	6,054	8,208	838	579	8,400	15,087	20,455	2,086
248	3,600	6,455	8,752	893	593	8,600	15,455	20,954	2,137
262	3,800	6,855	9,295	948	607	8,800	15,824	21,454	2,188
276	4,000	7,256	9,838	1,004	621	9,000	16,192	21,953	2,239
290	4,200	7,613	10,322	1,053	634	9,200	16,540	22,426	2,287
303	4,400	7,970	10,806	1,102	648	9,400	16,889	22,898	2,335
317	4,600	8,328	11,291	1,152	662	9,600	17,237	23,371	2,384
331	4,800	8,685	11,775	1,201	676	9,800	17,586	23,843	2,432
345	5,000	9,042	12,259	1,251	690	10,000	17,934	24,315	2,480

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-30XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGF*M	BAR	P.S.I	FT./LBS.	nM	KGF*M
14	200	528	715	73	359	5,200	13,477	18,272	1,864
28	400	1,055	1,431	146	372	5,400	13,982	18,957	1,934
41	600	1,583	2,146	219	386	5,600	14,487	19,642	2,003
55	800	2,110	2,861	292	400	5,800	14,992	20,326	2,073
69	1,000	2,638	3,577	365	414	6,000	15,497	21,011	2,143
83	1,200	3,154	4,276	437	427	6,200	16,010	21,707	2,214
97	1,400	3,670	4,975	508	441	6,400	16,523	22,403	2,285
110	1,600	4,185	5,675	579	455	6,600	17,037	23,099	2,356
124	1,800	4,701	6,374	650	469	6,800	17,550	23,794	2,427
138	2,000	5,217	7,073	722	483	7,000	18,063	24,490	2,498
152	2,200	5,748	7,794	795	496	7,200	18,579	25,189	2,569
165	2,400	6,279	8,514	869	510	7,400	19,094	25,888	2,640
179	2,600	6,811	9,234	942	524	7,600	19,610	26,587	2,712
193	2,800	7,342	9,954	1,016	538	7,800	20,125	27,286	2,783
207	3,000	7,873	10,674	1,089	552	8,000	20,641	27,985	2,854
221	3,200	8,376	11,356	1,158	565	8,200	21,157	28,685	2,926
234	3,400	8,878	12,037	1,228	579	8,400	21,673	29,385	2,997
248	3,600	9,381	12,719	1,297	593	8,600	22,189	30,084	3,068
262	3,800	9,883	13,400	1,367	607	8,800	22,705	30,784	3,140
276	4,000	10,386	14,082	1,436	621	9,000	23,221	31,483	3,211
290	4,200	10,903	14,783	1,508	690	9,200	23,738	32,184	3,282
303	4,400	11,420	15,484	1,579	648	9,400	24,254	32,884	3,354
317	4,600	11,938	16,185	1,651	662	9,600	24,771	33,585	3,425
331	4,800	12,455	16,886	1,722	676	9,800	25,287	34,285	3,497
345	5,000	12,972	17,588	1,794	700	10,000	25,804	34,986	3,568

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-45XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGF*M	BAR	P.S.I	FT./LBS.	nM	KGF*M
14	200	880	1,193	122	359	5,200	23,246	31,517	3,214
28	400	1,760	2,386	244	372	5,400	24,164	32,762	3,341
41	600	2,640	3,579	365	386	5,600	25,083	34,008	3,468
55	800	3,520	4,772	487	400	5,800	26,001	35,253	3,595
69	1,000	4,400	5,966	609	414	6,000	26,920	36,499	3,722
83	1,200	5,227	7,087	723	427	6,200	27,919	37,853	3,860
97	1,400	6,054	8,208	837	441	6,400	28,918	39,208	3,999
110	1,600	6,881	9,329	952	455	6,600	29,917	40,562	4,137
124	1,800	7,708	10,451	1,066	469	6,800	30,916	41,917	4,275
138	2,000	8,535	11,572	1,181	483	7,000	31,915	43,271	4,413
152	2,200	9,410	12,758	1,301	496	7,200	32,756	44,411	4,529
165	2,400	10,285	13,944	1,422	510	7,400	33,597	45,551	4,645
179	2,600	11,159	15,130	1,543	524	7,600	34,438	46,692	4,762
193	2,800	12,034	16,316	1,664	538	7,800	35,279	47,832	4,878
207	3,000	12,909	17,502	1,785	552	8,000	36,120	48,972	4,994
221	3,200	13,895	18,839	1,922	565	8,200	37,014	50,185	5,118
234	3,400	14,880	20,175	2,058	579	8,400	37,908	51,397	5,242
248	3,600	15,866	21,511	2,194	593	8,600	38,803	52,609	5,365
262	3,800	16,851	22,847	2,330	607	8,800	39,697	53,822	5,489
276	4,000	17,837	24,184	2,467	621	9,000	40,591	55,034	5,612
290	4,200	18,735	25,401	2,591	634	9,200	41,799	56,672	5,779
303	4,400	19,633	26,619	2,715	648	9,400	43,007	58,310	5,946
317	4,600	20,531	27,836	2,839	662	9,600	44,215	59,948	6,113
331	4,800	21,429	29,054	2,963	676	9,800	45,423	61,585	6,280
345	5,000	22,327	30,271	3,087	690	10,000	46,631	63,223	6,447

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.

# SU-XL SERIES

SQUARE DRIVE  
WRENCH

## SU-60XL TORQUE CHART

10,000 P.S.I. & 700 BAR

+/- 3%

BAR	P.S.I	FT./LBS.	nM	KGf*M	BAR	P.S.I	FT./LBS.	nM	KGf*M
14	200	1,023	1,386	142	359	5,200	27,999	37,962	3,872
28	400	2,045	2,773	283	372	5,400	29,121	39,483	4,027
41	600	3,068	4,159	425	386	5,600	30,242	41,003	4,182
55	800	4,090	5,546	566	400	5,800	31,364	42,523	4,337
69	1,000	5,113	6,932	707	414	6,000	32,485	44,044	4,492
83	1,200	6,110	8,284	845	427	6,200	33,608	45,566	4,647
97	1,400	7,107	9,636	983	441	6,400	34,730	47,088	4,802
110	1,600	8,104	10,988	1,121	455	6,600	35,853	48,610	4,957
124	1,800	9,101	12,339	1,259	469	6,800	36,975	50,132	5,113
138	2,000	10,098	13,691	1,397	483	7,000	38,098	51,654	5,268
152	2,200	11,210	15,199	1,550	496	7,200	39,217	53,171	5,422
165	2,400	12,322	16,706	1,704	510	7,400	40,336	54,688	5,577
179	2,600	13,434	18,214	1,858	524	7,600	41,455	56,206	5,732
193	2,800	14,546	19,722	2,012	538	7,800	42,574	57,723	5,887
207	3,000	15,658	21,229	2,165	552	8,000	43,693	59,240	6,041
221	3,200	16,824	22,810	2,326	565	8,200	44,818	60,765	6,197
234	3,400	17,990	24,391	2,488	579	8,400	45,943	62,290	6,352
248	3,600	19,155	25,971	2,649	593	8,600	47,068	63,816	6,508
262	3,800	20,321	27,552	2,810	607	8,800	48,193	65,341	6,663
276	4,000	21,487	29,133	2,971	621	9,000	49,318	66,866	6,819
290	4,200	22,565	30,594	3,120	634	9,200	50,435	68,381	6,973
303	4,400	23,643	32,056	3,269	648	9,400	51,553	69,896	7,128
317	4,600	24,722	33,518	3,418	662	9,600	52,670	71,411	7,282
331	4,800	25,800	34,980	3,567	676	9,800	53,788	72,926	7,437
345	5,000	26,878	36,442	3,717	690	10,000	54,905	74,441	7,591

Hydraulic Torque wrench was calibrated on TSD 20011-HT Hydraulic Torque Wrench Calibration System having a range of 0 to 20,000 X 2 Lb.Ft. S/N 4041 with an Accuracy 0.1% IV, Uncertainty +/- 2 Lb.Ft. and TSD 10K PSI, 0 to 10,000 X 1 PSI, 0.1% Pressure Standard, Uncertainty +/- 1 PSI. S/N 44818 Systems are traceable to National Institute for Standards and Technology (NIST) through Reference # 822/266926-02.