

REV.
A

SAE AS5443

FEDERAL SUPPLY CLASS
5306

RATIONALE

AS5443A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

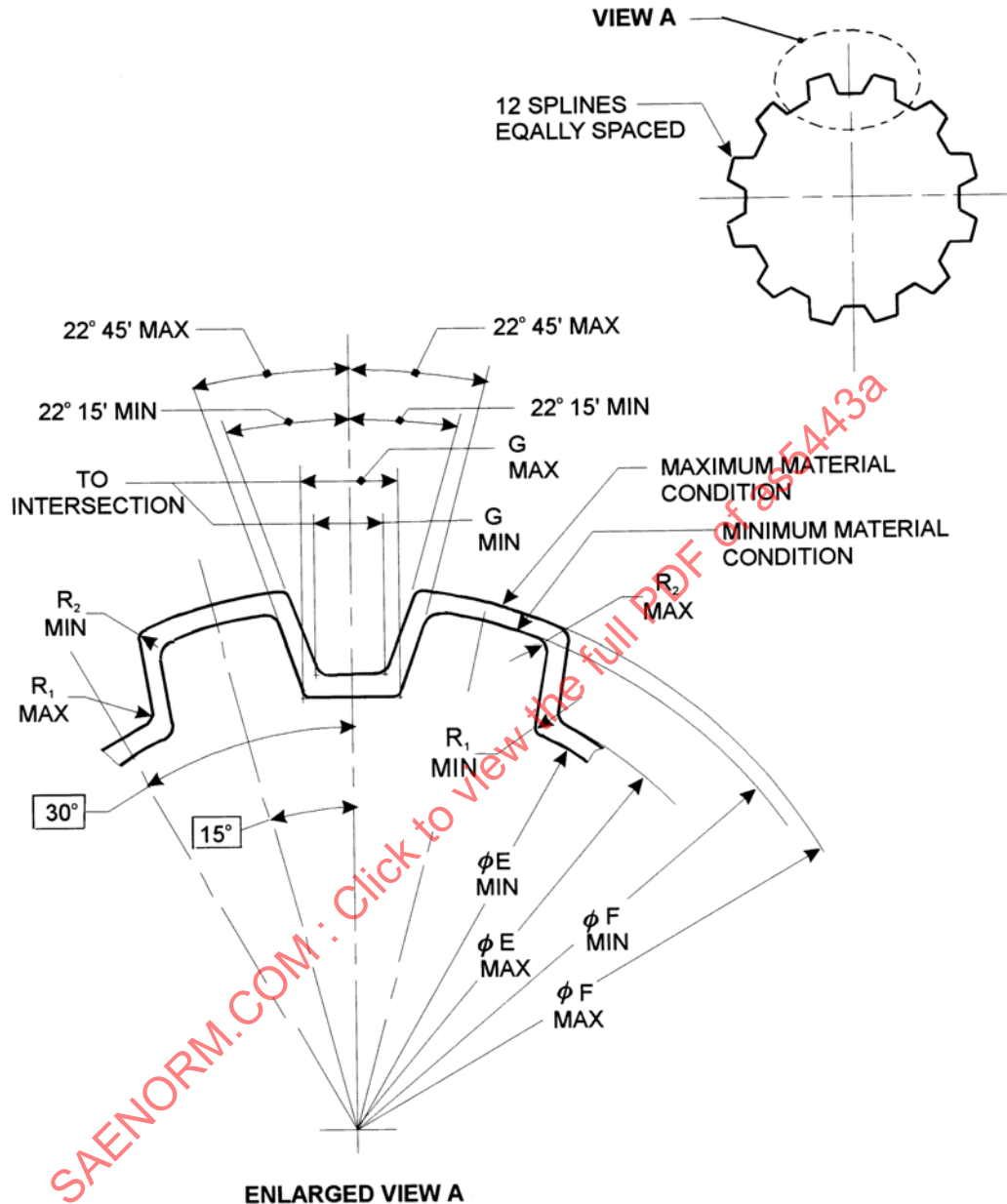
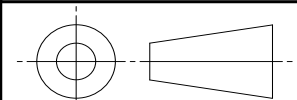


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS5443A>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

WRENCHING ELEMENT, SPLINE DRIVE -
DIMENSIONS FOR

SAE AS5443
SHEET 1 OF 5

REV.
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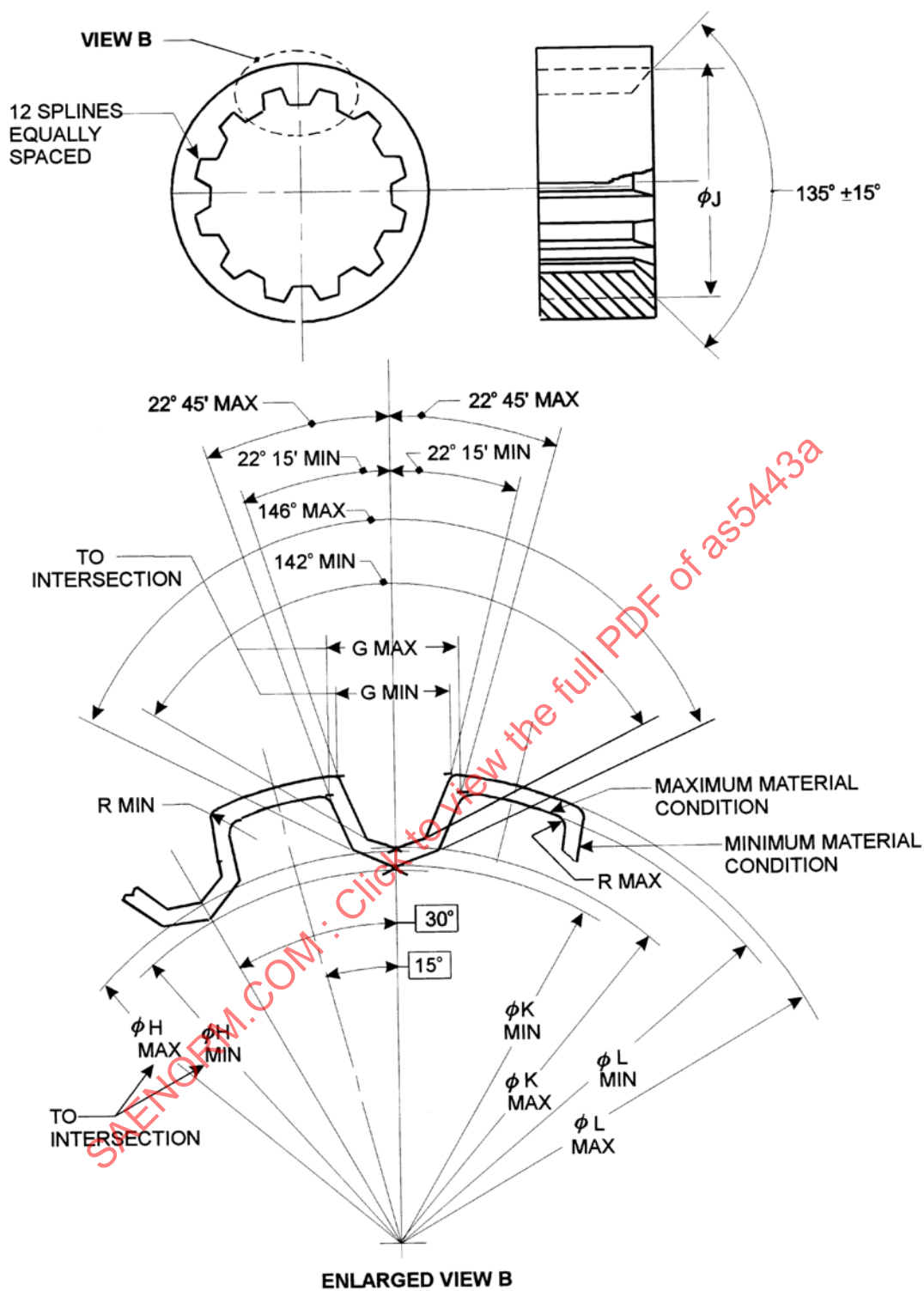


FIGURE 2

TABLE 1 - EXTERNAL SPLINE

AS5443 DASH NO.	NOMINAL WRENCHING ELEMENT SIZE	MAXIMUM MATERIAL CONDITION F MAX	MAXIMUM MATERIAL CONDITION E MAX	MAXIMUM MATERIAL CONDITION G MIN	MAXIMUM MATERIAL CONDITION R ₁ MAX	MAXIMUM MATERIAL CONDITION R ₂ MIN	MINIMUM MATERIAL CONDITION F MIN	MINIMUM MATERIAL CONDITION E MIN	MINIMUM MATERIAL CONDITION G MAX	MINIMUM MATERIAL CONDITION R ₁ MIN	MINIMUM MATERIAL CONDITION R ₂ MAX
06A	.1875	.235	.194	.020	.008	.003	.228	.189	.026	.003	.008
07A	.2188	.271	.227	.023	.008	.003	.264	.222	.029	.003	.008
08A	.2500	.308	.259	.026	.008	.003	.301	.253	.032	.003	.008
09A	.2812	.345	.291	.029	.010	.005	.337	.285	.035	.005	.010
10A	.3125	.381	.324	.031	.010	.005	.373	.318	.037	.005	.010
12A	.3750	.456	.389	.037	.010	.005	.447	.383	.043	.005	.010
14A	.4375	.531	.455	.043	.010	.005	.522	.448	.050	.005	.010
16A	.5000	.605	.521	.048	.015	.005	.595	.514	.055	.005	.015
18A	.5625	.679	.585	.054	.015	.005	.668	.578	.061	.005	.015
20A	.6250	.753	.651	.060	.015	.005	.742	.644	.068	.005	.015
22A	.6875	.828	.717	.065	.020	.005	.817	.711	.073	.005	.020
24A	.7500	.901	.782	.071	.020	.005	.890	.774	.079	.005	.020
26A	.8125	.974	.846	.077	.025	.005	.963	.838	.086	.005	.025
28A	.8750	1.049	.912	.082	.025	.005	1.037	.904	.091	.005	.025
30A	.9375	1.124	.978	.088	.025	.005	1.112	.970	.097	.005	.025
32A	1.0000	1.197	1.042	.094	.030	.010	1.185	1.034	.103	.010	.030
34A	1.0625	1.270	1.107	.099	.030	.010	1.258	1.099	.108	.010	.030
36A	1.1250	1.345	1.173	.105	.030	.010	1.333	1.165	.114	.010	.030
38A	1.1875	1.419	1.239	.111	.035	.010	1.406	1.229	.120	.010	.035
40A	1.2500	1.493	1.303	.116	.035	.010	1.480	1.293	.125	.010	.035
42A	1.3125	1.566	1.368	.122	.035	.010	1.553	1.358	.131	.010	.035
44A	1.3750	1.641	1.434	.127	.040	.010	1.628	1.424	.136	.010	.040
46A	1.4375	1.715	1.499	.133	.040	.010	1.702	1.489	.142	.010	.040
48A	1.5000	1.788	1.564	.139	.040	.010	1.775	1.554	.148	.010	.040
50A	1.5625	1.862	1.629	.144	.045	.015	1.849	1.619	.154	.015	.045
52A	1.6250	1.937	1.695	.150	.045	.015	1.924	1.685	.160	.015	.045
54A	1.6875	2.011	1.760	.156	.045	.015	1.998	1.750	.166	.015	.045
56A	1.7500	2.085	1.825	.161	.045	.015	2.072	1.815	.171	.015	.045
58A	1.8125	2.158	1.890	.167	.050	.015	2.145	1.880	.177	.015	.050
60A	1.8750	2.233	1.955	.173	.050	.015	2.219	1.945	.183	.015	.050
62A	1.9375	2.307	2.021	.178	.050	.015	2.293	2.011	.189	.015	.050
64A	2.0000	2.381	2.086	.184	.050	.015	2.367	2.076	.195	.015	.050
66A	2.0625	2.454	2.151	.189	.050	.015	2.440	2.141	.200	.015	.050
68A	2.1250	2.528	2.216	.195	.050	.015	2.514	2.206	.206	.015	.050
70A	2.1875	2.603	2.281	.201	.050	.015	2.589	2.271	.212	.015	.050

TABLE 2 - INTERNAL SPLINE

AS5443 DASH NO.	NOMINAL WRENCHING ELEMENT SIZE	MAXIMUM MATERIAL CONDITION K MIN	MAXIMUM MATERIAL CONDITION L MIN	MAXIMUM MATERIAL CONDITION G MAX	MAXIMUM MATERIAL CONDITION H MIN	MAXIMUM MATERIAL CONDITION J MIN	MAXIMUM MATERIAL CONDITION R MAX	MINIMUM MATERIAL CONDITION K MAX	MINIMUM MATERIAL CONDITION L MAX	MINIMUM MATERIAL CONDITION G MIN	MINIMUM MATERIAL CONDITION H MAX	MINIMUM MATERIAL CONDITION J MAX	MINIMUM MATERIAL CONDITION R MIN
06B	.1875	.198	.240	.036	.1967	.244	.010	.202	.244	.029	.2008	.294	.005
07B	.2188	.229	.276	.040	.2278	.280	.010	.234	.280	.033	.2319	.330	.005
08B	.2500	.263	.313	.045	.2609	.317	.010	.267	.317	.038	.2650	.367	.005
09B	.2812	.295	.350	.050	.2930	.354	.010	.299	.354	.043	.2971	.404	.005
10B	.3125	.329	.386	.054	.3271	.390	.010	.334	.390	.046	.3313	.440	.005
12B	.3750	.394	.461	.063	.3913	.465	.010	.398	.465	.055	.3955	.515	.005
14B	.4375	.458	.536	.073	.4555	.541	.015	.463	.541	.064	.4597	.591	.010
16B	.5000	.525	.610	.082	.5218	.615	.015	.531	.615	.073	.5270	.665	.010
18B	.5625	.590	.684	.092	.5860	.689	.015	.596	.689	.082	.5911	.739	.010
20B	.6250	.655	.758	.101	.6512	.764	.015	.662	.764	.091	.6574	.814	.010
22B	.6875	.721	.833	.110	.7164	.839	.015	.728	.839	.099	.7226	.889	.010
24B	.7500	.786	.906	.119	.7816	.912	.015	.795	.912	.108	.7889	.962	.010
26B	.8125	.852	.979	.128	.8469	.986	.015	.862	.986	.116	.8551	1.036	.010
28B	.8750	.917	1.054	.138	.9110	1.061	.015	.926	1.061	.126	.9193	1.111	.010
30B	.9375	.983	1.129	.147	.9773	1.136	.015	.994	1.136	.135	.9866	1.186	.010
32B	1.0000	1.048	1.202	.156	1.0415	1.209	.020	1.059	1.209	.144	1.0508	1.259	.010
34B	1.0625	1.112	1.275	.165	1.1057	1.282	.020	1.125	1.282	.153	1.1160	1.332	.010
36B	1.1250	1.179	1.350	.175	1.1719	1.357	.020	1.191	1.357	.163	1.1823	1.407	.010
38B	1.1875	1.245	1.424	.184	1.2372	1.431	.020	1.255	1.431	.172	1.2454	1.481	.010
40B	1.2500	1.309	1.498	.193	1.3013	1.505	.020	1.323	1.505	.181	1.3127	1.555	.010
42B	1.3125	1.375	1.571	.203	1.3666	1.578	.020	1.387	1.578	.191	1.3759	1.628	.010
44B	1.3750	1.441	1.646	.212	1.4318	1.653	.020	1.454	1.653	.200	1.4432	1.703	.010
46B	1.4375	1.506	1.720	.221	1.4970	1.727	.020	1.520	1.727	.209	1.5084	1.777	.010
48B	1.5000	1.571	1.793	.230	1.5612	1.800	.020	1.586	1.800	.218	1.5736	1.850	.010
50B	1.5625	1.635	1.867	.240	1.6254	1.875	.025	1.650	1.875	.227	1.6378	1.925	.010
52B	1.6250	1.702	1.942	.249	1.6916	1.950	.025	1.717	1.950	.236	1.7041	2.000	.010
54B	1.6875	1.767	2.016	.258	1.7558	2.024	.025	1.783	2.024	.245	1.7693	2.074	.010
56B	1.7500	1.833	2.090	.268	1.8221	2.098	.025	1.850	2.098	.255	1.8355	2.148	.010
58B	1.8125	1.898	2.163	.277	1.8863	2.171	.025	1.914	2.171	.264	1.8997	2.221	.010
60B	1.8750	1.963	2.238	.286	1.9515	2.246	.025	1.980	2.246	.273	1.9650	2.296	.010
62B	1.9375	2.029	2.312	.295	2.0167	2.321	.025	2.047	2.321	.282	2.0312	2.371	.010
64B	2.0000	2.095	2.386	.305	2.0819	2.395	.025	2.113	2.395	.292	2.0819	2.445	.010
66B	2.0625	2.160	2.459	.314	2.1472	2.468	.025	2.178	2.468	.301	2.1617	2.518	.010
68B	2.1250	2.226	2.533	.323	2.2124	2.543	.025	2.245	2.543	.310	2.2279	2.593	.010
70B	2.1875	2.292	2.608	.333	2.2776	2.618	.025	2.311	2.618	.320	2.2931	2.668	.010