

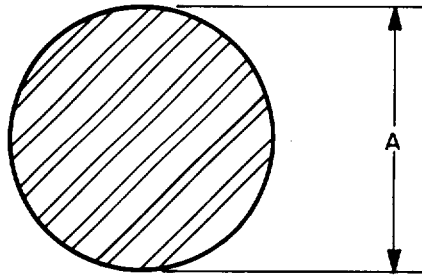
FED. SUP CLASS  
9510

TABLE I. DASH NUMBERS

DASH NO	A	SUFFIX 1/	GRADE 2/	DASH NO	A	SUFFIX 1/	GRADE 2/
001	.375	8	C	079	.750	8	C
003	.375	10	A	081	.750	12	A
005	.375	12	A	083	.812	10	A
007	.375	12	A	085	.812	10	C
009	.375	9	C	087	.812	12	A
011	.375	10	C	089	.875	8	A
013	.375	12	C	091	.875	10	A
015	.437	10	A	093	.875	10	C
017	.437	10	C	095	.875	12	A
019	.437	12	A	097	.875	12	C
021	.500	8	A	099	.938	10	A
023	.500	8	C	101	.938	10	C
025	.500	9	A	103	.938	12	A
027	.500	9	C	105	1.000	8	A
029	.500	10	A	107	1.000	10	A
031	.500	10	C	109	1.000	10	C
033	.500	12	A	111	1.000	12	C
035	.500	12	C	113	1.000	12	A
037	.562	10	C	115	1.000	9	C
039	.562	10	A	117	1.000	9	A
041	.562	12	C	119	1.000	8	A
043	.562	12	A	121	1.000	8	C
045	.625	8	A	123	1.062	8	A
047	.625	10	A	125	1.125	12	A
049	.625	10	C	127	1.125	12	C
051	.625	12	C	129	1.125	9	C
053	.625	12	A	131	1.125	10	C
055	.625	9	C	133	1.188	10	C
057	.625	9	A	135	1.250	10	C
059	.625	8	C	137	1.250	12	C
061	.688	10	A	139	1.250	12	A
063	.688	10	C	141	1.250	9	C
065	.688	12	A	143	1.250	10	A
067	.750	8	A	145	1.250	9	A
069	.750	10	C	147	1.312	10	C
071	.750	10	A	149	1.375	10	C
073	.750	12	C	151	1.500	8	A
075	.750	9	A	153	1.500	12	C
077	.750	9	C	155	1.500	12	A

APPROVED 31 JUL 85  
REVISED

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P.A. Other Cust	MR 99	INTERNATIONAL INTEREST	TITLE <b>BAR, ROUND, TOOL STEEL, TYPE W1</b>	<b>MILITARY STANDARD</b>
PROCUREMENT SPECIFICATION <b>ASTM-A 686</b>			SUPERSEDES:	<b>MS 52079</b>
PAGE 1			OF 2	

DD FORM 672-1 (COORDINATED)  
1 MAY 73

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

9510-0502

FED. SUP CLASS  
9510

TABLE I. DASH NUMBERS - CONTINUED

DASH NO	A	SUFFIX <sup>1/</sup>	GRADE <sup>2/</sup>	DASH NO	A	SUFFIX <sup>1/</sup>	GRADE <sup>2/</sup>
157	1.500	9	A	187	2.250	9	C
159	1.500	10	A	189	2.500	9	C
161	1.500	10	C	191	2.500	10	C
163	1.625	10	C	193	2.500	12	C
165	1.750	10	C	195	3.000	9	A
167	1.750	9	A	197	3.000	10	C
169	1.750	12	C	199	3.000	12	C
171	1.875	10	C	201	3.250	9	C
173	2.000	8	A	203	3.500	9	C
175	2.000	10	A	205	4.000	9	C
177	2.000	10	C	207	4.000	10	C
179	2.000	12	A	209	4.000	12	C
181	2.000	9	C	211	6.000	9	C
183	2.000	9	A				
185	2.000	12	C				

<sup>1/</sup> SEE RECT 2  
<sup>2/</sup> SEE RECT 2

## REQUIREMENTS:

1. MATERIAL. TOOL STEEL TYPE W1 (UNS T72301), AS SPECIFIED IN PROCUREMENT DOCUMENT.
2. CONDITION.

SUFFIX	CARBON RANGE OF
8	.8 - .9
9	.9 - 1.0
10	1.0 - 1.1
12	1.2 - 1.3

GRADE A IS REFERRED TO AS EXTRA OR SPECIAL; THE CHEMICAL COMPOSITION IS HELD TO CLOSEST LIMITS FOR CONTROLLED HARDENABILITY - REGULAR HARDENING.

GRADE C IS REFERRED TO AS REGULAR OR STANDARD; IT IS INTENDED FOR APPLICATIONS THAT DO NOT REQUIRE CONTROLLED HARDENABILITY AND WHERE SOME LATITUDE IN UNIFORMITY IS PERMISSIBLE.

3. LENGTH. STANDARD LENGTH OF ROUND BAR IS 10 FEET MINIMUM, 12 FEET MAXIMUM.
4. FORMING PROCESS. HOT FORMED.
5. FINISH. AS SPECIFIED IN PROCUREMENT DOCUMENT.
6. HEAT TREATMENT. ANNEALED.
7. PART NUMBER. THE PART NUMBER CONSISTS OF THE BASIC MS NUMBER, PLUS A DASH NUMBER FROM TABLE I.

EXAMPLE: MS52079-001

DASH NUMBER FROM TABLE I

BASIC MS NUMBER

8. MARKING. TOOL STEEL SHALL BE MARKED IN ACCORDANCE WITH FED-STD-183 WITH THE EXCEPTION THAT A PART NUMBER FROM THIS MILITARY STANDARD SHALL BE INCLUDED AS PART OF THE IDENTIFICATION MARKING.

## NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
3. REFERENCED GOVERNMENT (OR NONGOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

P.A. MR	INTERNATIONAL INTEREST	TITLE <b>BAR, ROUND, TOOL STEEL, TYPE W1</b>	<b>MILITARY STANDARD</b>
Other Cust 99			<b>MS52079</b>
PROCUREMENT SPECIFICATION <b>ASTM-A 686</b>		SUPERSEDES:	PAGE 2 OF 2

DD FORM 1 MAY 73 **672-1** (COORDINATED)

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