



TABLE I. DASH NUMBERS

DASH NO	A	SUFFIX 1/	GRADE 2/	DASH NO	A	SUFFIX 1/	GRADE 2/
001	.375	9-1/2	A	019	.812	9-1/2	A
003	.375	9-1/2	C	021	.875	9-1/2	A
005	.438	9-1/2	C	023	.875	9-1/2	C
007	.500	9-1/2	C	025	.938	9-1/2	A
009	.562	9-1/2	A	027	.938	9-1/2	C
011	.562	9-1/2	C	029	1.000	9-1/2	C
013	.625	9-1/2	C	031	1.500	9-1/2	C
015	.688	9-1/2	C	033	2.000	9-1/2	C
017	.750	9-1/2	C				

1/ SEE REQT 2  
2/ SEE REQT 2

REQUIREMENTS:

1. MATERIAL. TOOL STEEL TYPE W2 (UNS T72302), AS SPECIFIED IN PROCUREMENT DOCUMENT.

2. CONDITION.

SUFFIX	CARBON RANGE OF
9-1/2	.95 - 1.1

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: MS52080-001

001	DASH NUMBER FROM TABLE I
MS52080	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:

- ALL DIMENSIONS ARE IN INCHES.
- 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.
- 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.

USER ACTIVITIES:

REVIEWER ACTIVITIES:  
ARMY-AR,EA,MI  
AIR FORCE-84  
DLA-IS

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P.A. Other Cust	MR 99	INTERNATIONAL INTEREST	TITLE <b>BAR, ROUND, TOOL STEEL, TYPE W2</b>	<b>MILITARY STANDARD</b>
PROCUREMENT SPECIFICATION <b>ASTM-A 686</b>			SUPERSEDES:	PAGE   OF
				<b>MS52080</b>