

Drill Rod & Tool Steels, Inc.

***3700 North River Road
Franklin Park, IL 60131***

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ANALYSIS REPORT

MEDIUM ALLOY, AIR HARD, COLD WORK TOOL STEEL.

***AISI A-2
ASTM A-681
MIL. SPEC QQT-570A***

CHEMICAL ANALYSIS:	LIMITS.	
C CARBON	0.95 TO	1.05%
Si SILICON		.50 MAX
Mn MANGANESE	.45	.90
Mo MOLYBDENUM	.90	1.40
V VANADIUM	.15	.50
Cr CHROMIUM	4.75	5.50
P PHOSPHORUS		.03 MAX
S SULPHUR		.03 MAX

QUENCHING MEDIUM: STILL AIR

HARDNESS RANGE: 58 TO 62 Rc. WHEN QUENCHED IN STILL AIR AND DOUBLE TEMPERED.

HEAT TREATMENT: Typical.

HARDENING TEMPERATURE (STILL AIR) 1700 TO 1775° F.

TEMPERING TEMPERATURE 300 TO 1000°F.

ANNEALING TEMPERATURE 1550°F.

MATERIAL FURNISHED IN THE ANNEALED CONDITION. UNDER 229 BRINELL

HARDNESS ROCKWELL SCALE B89-B99

MELTING POINT IS 2300 TO 2620°F.

YIELD STRENGTH IS 55,000-108,000 psi.

ALL MATERIAL IS DFARS COMPLIANT

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MATERIAL IS MANUFACTURED IN THE U.S.A.