

Drill Rod & Tool Steels, Inc.

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

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ANALYSIS REPORT

MEDIUM ALLOY, AIR HARD, SHOCK TOOL STEEL.

***AISI S-7
ASTM A-681
MIL. SPEC QQT-570a***

| CHEMICAL ANALYSIS: | LIMITS. |
|---------------------------|--------------------|
| C CARBON | .45 TO .55% |
| Si SILICON | .50 MAX |
| Cr CHROMIUM | 2.75 3.50 |
| Mo MOLYBDENUM | 1.15 1.65 |
| Mn MANGANESE | .70 Typical |

QUENCHING MEDIUM: STILL AIR/ OIL.

HARDNESS RANGE: 38 TO 60 Rc.

HEAT TREATMENT: Typical.

HARDENING TEMPERATURE 1725°F QUENCH, AIR COOL 150° F.

TEMPERING TEMPERATURE 400 TO 1300°F.

ANNEALING TEMPERATURE 1500 TO 1550°F.

**MATERIAL FURNISHED IN THE ANNEALED CONDITION: UNDER 223
BRINELL**

ALL MATERIAL IS DFARS COMPLIANT

MATERIAL IS MANUFACTURED IN THE U.S.A.