Drill Rod & Tool Steels, Inc. 3700 North River Road Franklin Park, IL 60131 847-678-4400 Phone 847-678-5477 Fax

ANALYSIS REPORT

HIGH CARBON, HIGH CHROMIUM, COLD WORK TOOL STEEL.

AISI D-2 ASTM A-681 MIL. SPEC QQT-570a

CHEMICAL ANALYSIS:		LIMITS.
C CARBON	1.40 TO 1.60%	
Si SILICON		.50 MAX
Mn MANGANESE		.50 MAX
V VANADIUM	.15	1.10
Cr CHROMIUM	11.00	13.00
Mo MOLYBDENUM	.70	1.20
P PHOSPHORUS		.03 MAX
S SULPHUR		.03 MAX

QUENCHING MEDIUM: STILL AIR, ALSO OIL HARDENING

HARDNESS RANGE: 61 TO 63 Rc. When tempered @ 300 to 350°F.

HEAT TREATMENT: Typical. HARDENING TEMPERATURE (STILL AIR) 1850 TO 1925° F. TEMPERING TEMPERATURE 300 TO 1000°F. ANNEALING TEMPERATURE 1600 TO 1650°F.

MATERIAL FURNISHED IN THE ANNEALED CONDITION: UNDER 255 BRINELL

ALL MATERIAL IS DFARS COMPLIANT

MATERIAL MANUFACTURED IN THE U.S.A.