

## POLISHED DRILLRODS

CARBON AISI W-1
OIL HARDENING AISI O- 1

### TYPICAL ANALYSIS

	С.	Mn.	Si.	Cr.	W.	V.	Mo.
W -1	1.00	0.30	0.30				
O - 1	0.90	1.20	0.35	0.50	0.50	0.20	

SUPPLIED IN THE ANNEALED STATE WITH A FINELY GROUND AND POLISHED SURFACE. ITS HIGH ACCURACY TO SIZE, UNIFORM PROPERTIES THAT ARE FREE FROM DEFECTS AND DECARBURIZATION, OPENS A WIDE FIELD OF APPLICATIONS FOR THESE DRILLRODS.

#### TYPICAL APPLICATIONS

DRILLS, TAPS, DIES, ARBORS, BALANCE STAFFS, CUTTING-OFF TOOLS, CHASERS, ENGRAVERS TOOLS, JEWELERS TOOLS, GAUGES, MACHINERY PARTS, MILLING TOOLS, PINS, PUNCHES, PINIONS, PIVOTS, ROLLER BEARINGS, THREADING DIES ETC; ALSO FOR GUIDE RODS AND ADJUSTING PINS IN TOOL MANUFACTURING AND GENERAL ENGINEERING, EJECTING MANDRELS, SURGICAL INSTRUMENTS, AXLES AND SHAFTS IN PRECISION MECHANICS.

#### **MECHANICAL PROPERTIES - ANNEALED**

TENSILE STRENGTH 38-44 TONS/SQ. INCH

BRINELL HARDNESS 174-207

THERMAL TREATMENTS DEGREES IN CELSIUS

AISI W-1

HOT FORMING 1000-800°

ANNEALING 690-710°

HARDENING 760-780° IN WATER

TEMPERING AS REQUIRED

OBTAINABLE HARDNESS - HRC 64-66

(CONTINUED)



# **POLISHED DRILLRODS**

CARBON AISI W-1 OIL HARDENING AISI O-1

THERMAL TREATMENTS DEGREES IN CELSIUS

AISI O-1

HOT FORMING 1050-850°

ANNEALING 740-760°

HARDENING 790-830° IN OIL

TEMPERING 100-300°

OBTAINABLE HARDNESS - HRC 64-66

TOLERANCES PLUS OR MINUS

UP TO 0.124" .0003" 0.125" TO 0.499" .0005" 0.500" TO 2.000" .001"

**AVAILABLE IN METRIC AND IMPERIAL SIZES.**