

INDUCTION HARDENED SHAFTING - 1045

AISI/SAE 1045 INDUCTION HARDENED AND CHROME PLATED SHAFTING
INDUCTION HARDENED AND CHROME PLATED SHAFTING, SUPPLIED IN FIBRE TUBES

TYPICAL ANALYSIS

C.	Mn.	P.	S.	Si.
.43/.50	.60/.90	.04 MAX.	.05 MAX.	.15/.35

A COLD DRAWN, PRECISION GROUND AND POLISHED SHAFTING, SEAM FREE SURFACE FINISH IS FIRST INDUCTION HARDENED TO A CASE DEPTH OF .050" TO .090" RESULTING IN A SURFACE HARDNESS OF APPROXIMATELY ROCKWELL C 50 MINIMUM, THEREBY ENSURING THE PROPERTIES OF THE BAR. THE EXTRA HARDNESS ENSURES SUPERIOR WEAR RESISTANCE. THE BARS ARE HARD CHROMED IN THE SAME MANNER AS CHROME PLATED SHAFTING ALLOWING THE SAME ADVANTAGES OF CORROSION AND WEAR RESISTANCE, BUT WITH THE INDUCTION HARDENING, THE BARS WILL GIVE SUPERIOR SERVICE.

INDUCTION HARDENING

CASE DEPTH	.050" TO .090"
CASE HARDNESS	RC 50 MINIMUM SURFACE HARDNESS

CHROME PLATING

FINISHED THICKNESS OF CHROME	.001" MINIMUM PER SIDE
HARDNESS OF CHROME	69-71 RC
SURFACE FINISH	RMS. 16 MAX.

TYPICAL APPLICATIONS

HYDRAULIC SHAFTING, PUMP SHAFTS, PISTON RODS, ETC.

MECHANICAL PROPERTIES

YIELD STRENGTH, PSI	1/2" TO 15/16" DIA.	75,000 APPROX..
	1" TO 4" DIA.	100,000 MIN.
	4-1/4" TO 6" DIA.	50,000 MIN.

(CONTINUED)

INDUCTION HARDENED SHAFTING - 1045

AISI/SAE 1045 INDUCTION HARDENED AND CHROME PLATED SHAFTING
INDUCTION HARDENED AND CHROME PLATED SHAFTING, SUPPLIED IN FIBRE TUBES

SIZE TOLERANCE

ALL TOLERANCES ARE **MINUS**

DIAMETER	TOLERANCES	
1-1/2" DIA. AND UNDER	MINUS	0.0015"
OVER 1-1/2" DIA. TO UNDER 2-1/2" DIA.	MINUS	0.002"
OVER 2-1/2" DIA. TO 3" DIA.	MINUS	0.0025"
OVER 3" DIA. TO 4" DIA.	MINUS	0.0035"
OVER 4" DIA.	MINUS	0.005"

AVAILABLE IN METRIC AND IMPERIAL SIZES