**ROBERT 16 Pb CK 75 + Pb****FINE CARBON STEEL + LEAD****CHEMICAL COMPOSITION :**

<b>C</b>	0.70-0.80%
<b>Si</b>	0.15-0.35%
<b>Mn</b>	0.30-0.45%
<b>P</b>	0.025% Max.
<b>S</b>	0.025% Max.
<b>Cr</b>	0.40% Max.
<b>Mo</b>	0.10% Max.
<b>Ni</b>	0.40% Max.
<b>Pb</b>	0.15-0.30%

**ALLOY DENOMINATIONS :**

WN/MATIÈRE DIN N° :	not standardized (1.1248 + Pb)
ROBERT LAMINAGE :	942 or ROBERT 16 Pb
EN : (Pas normalisé)	C 75 S + Pb
DIN : (Pas normalisé)	CK 75 + Pb
AFNOR : (Pas normalisé)	C 75 RR + Pb

**PHYSICAL PROPERTIES :**

Density 20° C	7.86	Kg/dm <sup>3</sup>
Melting point	1400-1500	°C
Modulus of elasticity, longitudinal	210	GPa
Thermal Conductivity	45-55	W/M . K
Electrical Conductivity	7.7	M/Ω mm <sup>2</sup>
Electrical resistivity	0.13	Ω mm <sup>2</sup> /M
Coefficient of linear expansion from 20 up to 300°C	12 x 10 <sup>-6</sup>	°C <sup>-1</sup>
IACS (International Annealed Copper Standard)	13	%

**WORKABILITY :**

Coldworking	Good
Machining	Very Good
Polishing	Good
Annealing temp.	650-750 °C
Non cémentable	

**MAIN APPLICATIONS :**

Watch components, dials, hands, tirettes, ponts  
Carbon steel for machining

**THERMAL TREATMENT :**

Oil soaked 810-840 °C

**QUALITY OF EDGES :**

Slit edges

**CONDITIONING :**

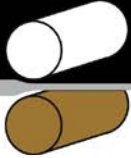
a) In coils

**AVAILABLE SIZES :**

Widths from 2 up to 155mm  
Thickness from 0.01up to 3.0mm

**TOLERANCES :**

Depending on product



**MECHANICAL PROPERTIES :**

**ROBERT 16 Pb CK 75 + Pb**

**ROBERT LAMINAGE NORM**

TEMPER	Vickers hardness	Rm (MPa)
Soft	145-175	480-600
1/4 hard	170-200	580-680
1/2 hard	195-220	660-770
3/4 hard	215-245	750-860
hard	240-275	830-950
Extra hard	>270	>930