

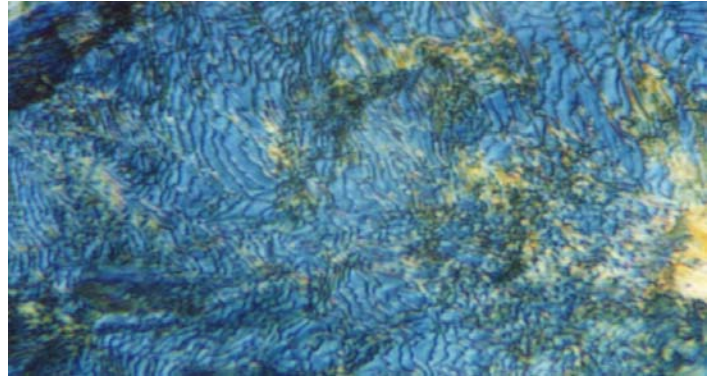
**Material** : Steel, Pearlitic

**Micrologue**

**Method No.** : A03

**Results**

Pearlitic steels are usually quenched and tempered. Microstructure is completely pearlitic. In high magnifications pearlitic constituents are observed.



**Pearlitic structure**

Magnification: 1600X

Etching: 3% Nital

**Preparation Method:**

**Cutting:** Abrasive Cut-off machine with Metlab RC-35-50 Abrasive wheel

**Mounting:** Mounting Press with Black Epoxy

**Mechanical Preparation:** FORCIPOL Grinding / Polishing Machine + FORCIMAT Automatic Specimen Mover.

Steps	Surface	Abrasive	Lubricant	Force per Sample, (N)/(PSI)	Time min.	Disc Speed, rpm	Relative Rotation
1	PIANO	YELLOW	Water	25/5	1	250	Contra
2	PIANO	BLUE	Water	25/5	1	250	Contra
3	Dac Cloth	3 $\mu$ Diamond Suspension	Blue Lube	15/3	4	150	Contra
4	Metlab Cloth	1 $\mu$ Diamond Suspension	Blue Lube	15/3	1	150	Contra

**FOR MORE DETAILED INFORMATION PLEASE REFER TO METLAB PRICE LIST**