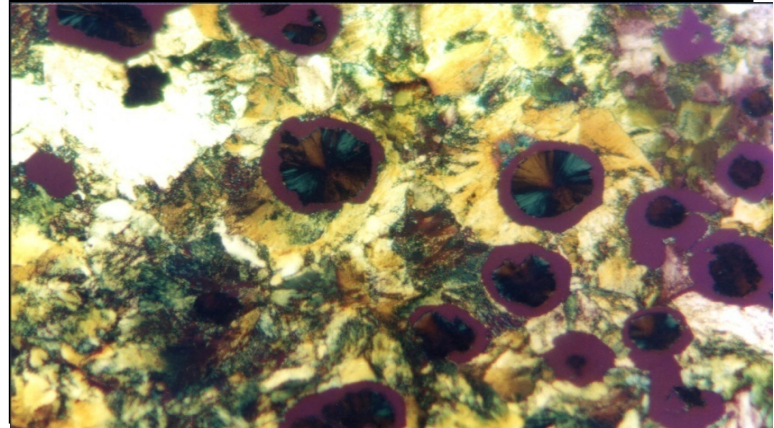


Material : Nodular Cast Iron, Pearlitic

Method No. : B04

Results

Nodular Cast Iron is a commonly used engineering material. Strength and ductility is very good combined. Matrix is completely pearlitic and ferrite surrounds the graphite nodules.



Nodular Cast Iron, Polarized light.
Magnification: 200X Etching: 2% Nital

Preparation Method:

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

Mounting: Mounting Press with Phenolic Powder

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	300	Contra
3	Dac Cloth	3 μ Diamond Suspension	Blue Lube	15/3	4	150	Contra
4	Metlab Cloth	1 μ Diamond Suspension	Blue Lube	15/3	1	150	Contra

FOR MORE DETAILED INFORMATION PLEASE REFER TO METLAB PRICE LIST