

Nodularity and Ferrite Pearlite Evaluation as per ISO 945

Date:	2026-Feb-18, 12:38:21 PM GMT-05:00	Area (mic2):	268325	Mag.:	
User:		Calibration:	1.7699 µm/pixel	Units:	Microns
Sample ID:		Nodularity by Count:	92.31	Graphite %:	13.62
Fields:	1	Nodularity by Area:	98.17	Pearlite %:	13.41
Graphite main type (fixed):	VI	JIS G 5502 Nodularity:	91.28	Ferrite %:	72.97
Total rating (area%):	98 % , 2			Pores %:	0.00

All graphite:

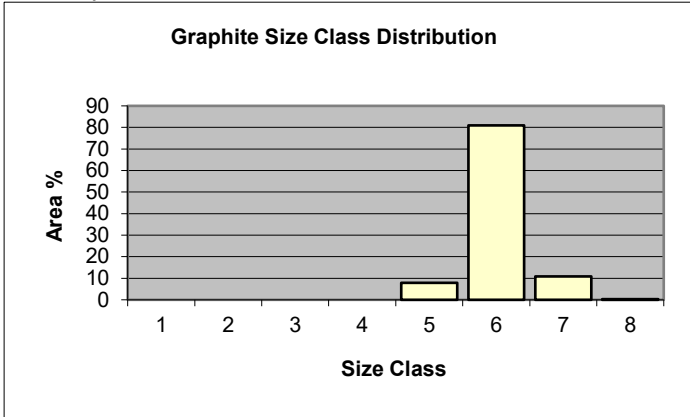
Range (mic.)	Size Class	Count	Area %
> 1000	1	0	0
500 - 1000	2	0	0
250 - 500	3	0	0
120 - 250	4	0	0
60 - 120	5	14	8
30 - 60	6	18	81
15 - 30	7	5	11
0 - 15	8	2	0

All graphite mean Length: 35.22 µm
 Corresponding Size Class: 6
 All graphite density: 145 1/mm
 Count of all graphites: 39

Nodules maximum Length: 63.938 µm
 Corresponding Size Class: 5
 Nodules mean Length: 36.38 µm
 Corresponding Size Class: 6
 Nodules density: 134 1/mm
 Nodules count: 36

Other graphite main type: ? (manual)
 Other types mean Length: 21.31 µm
 Corresponding Size Class: 7
 Other types of graphite density: 11 1/mm
 Other types of graphite count: 3

All Graphites:



Nodules:

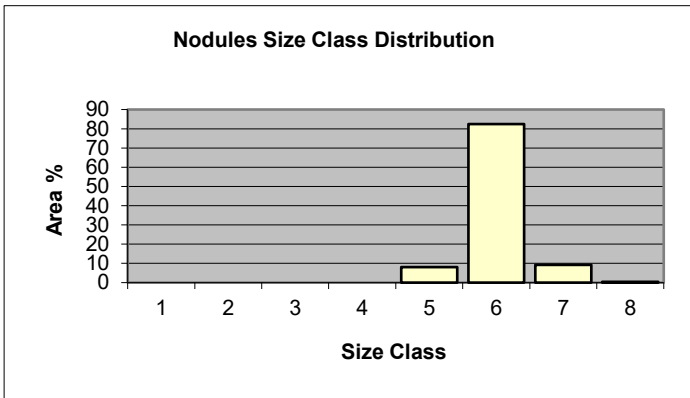


Figure 1: Typical field

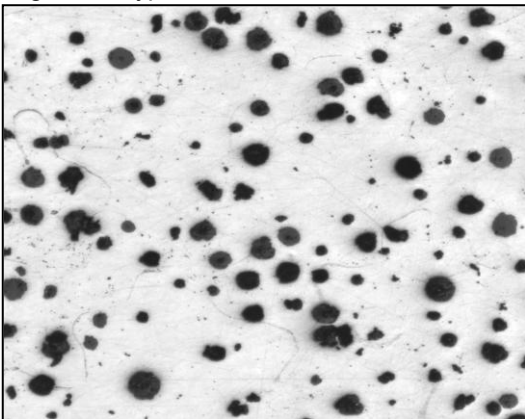
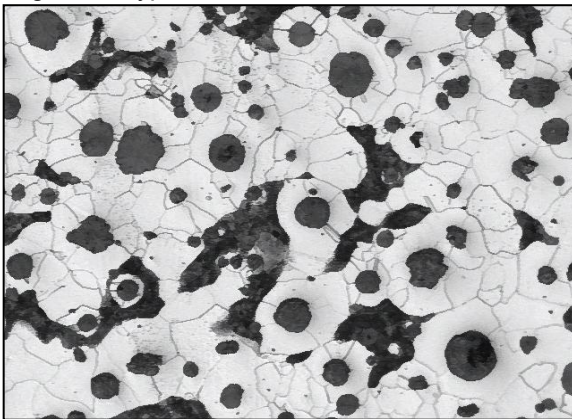


Figure 2: Typical etched field.



The current analysis has been added to the summary file.