

Nodularity Evaluation as per ASTM A247

Date:	2026-Feb-18, 12:32:50 PM GMT-05:00	Area (mic²):	195248	Mag.:	100x
User:		Calibration:	0.8850 $\mu\text{m}/\text{pixel}$	Units:	Microns
Sample ID:	1	Nodularity by Count:	88.89	# Fields:	1
Graphite main type (fixed):	I	Nodularity by Area:	98.87	Graphite %:	13.69
Rating (A%):	99 % I, 1 %	JIS G 5502 Nodularity:	86.67	Pores %:	0.00

All graphite:

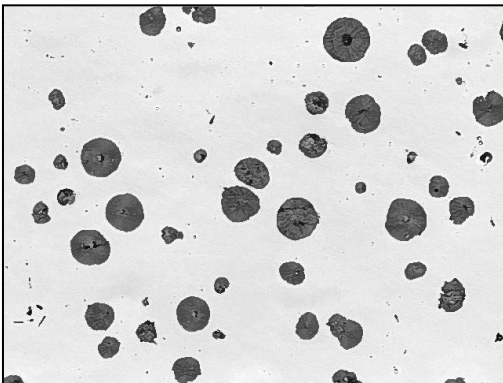
Range (mic.)	Size Class	Count	Area %
> 1280	>	0	0
640 - 1280	1	0	0
320 - 640	2	0	0
160 - 320	3	0	0
80 - 160	4	0	0
40 - 80	5	11	60
20 - 40	6	18	35
10 - 20	7	9	5
0 - 10	8	7	1

All graphite mean Length: 27.02 μm
 Corresponding Size Class: 6
 All graphite density: 230 1/mm
 Count of all graphites: 45

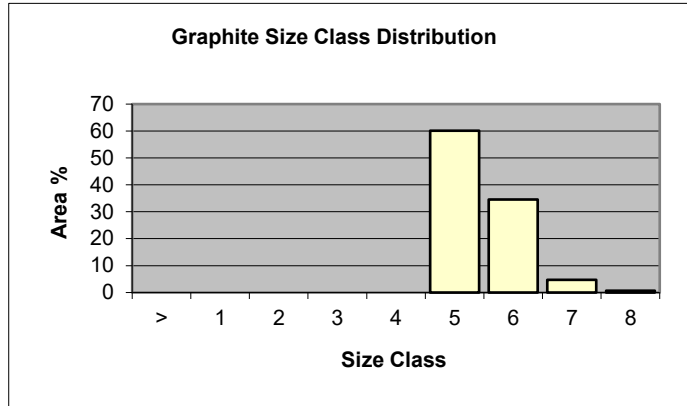
Nodules max. Length: 53.761 μm
 Corresponding Size Class: 5
 Nodules mean Length: 28.92 μm
 Corresponding Size Class: 6
 Nodules density: 205 1/mm
 Nodules count: 40

Other graphite main type: ? (manual)
 Other types mean Length: 11.84 μm
 Corresponding Size Class: 7
 Other types of graphite density: 26 1/mm
 Other types of graphite count: 5

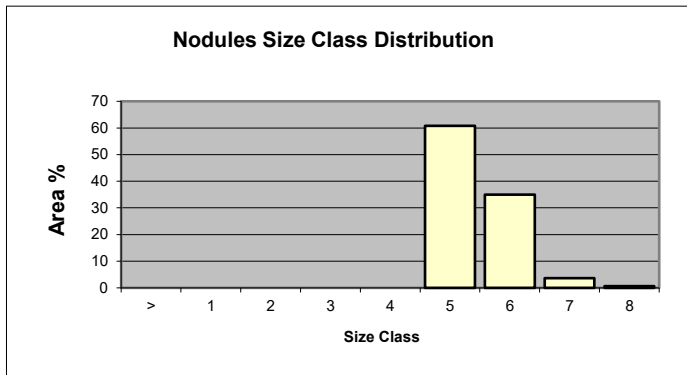
Figure 1: Typical field



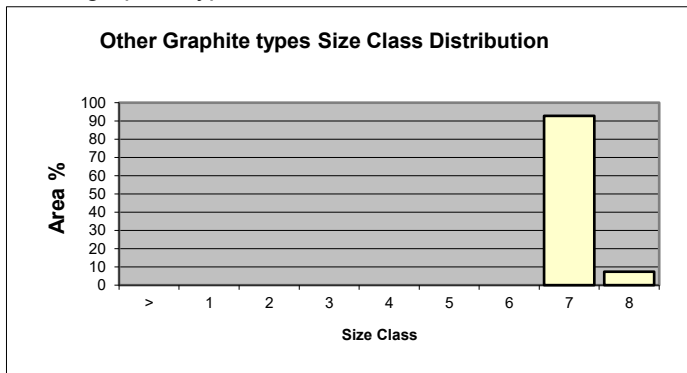
All Graphites:



Nodules:



Other graphite types:



The current analysis has been added to the summary file.