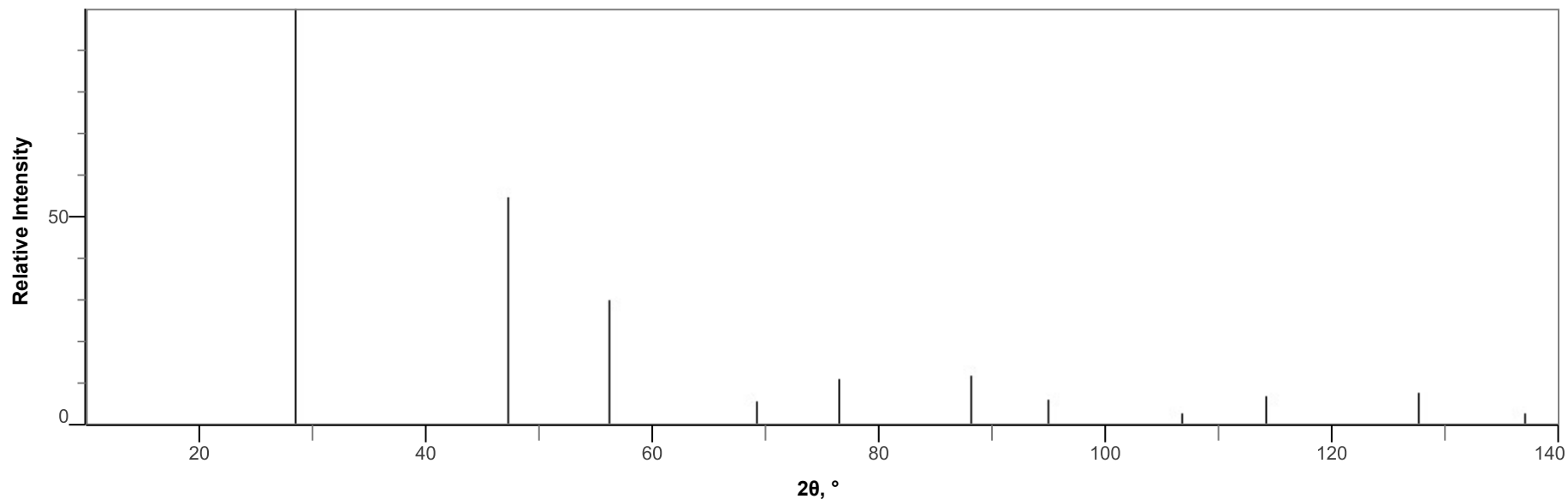


PDF Card No.: 00-027-1402 QM: S

Subfile name: Inorganic, Mineral, Alloy&Metal, Ceramic, Common Phase, Educational Pattern, Forensic			
Chemical formula:	Si		
Name:	Silicon, syn		I/Ic (RIR) = 4.700
Crystal system: Cubic	Space group: 227 : Fd-3m		Obs.density, g/cm³: 0.00000
Lattice parameters:	a = 5.43088	b = 5.43088	c = 5.43088
	α, ° = 90.000	β, ° = 90.000	γ, ° = 90.000
	Volume = 160.181	Z = 8.000	
Reference : Natl. Bur. Stand. (U. S.) Monogr. 2513(1976)35.			
CAS: 7440-21-3			
Radiation: CuKα1		Wavelength = 1.54060	
2θ range: 10.00000 - 140.00000			
Database comments: Additional Patterns: To replace 00-005-0565 and 00-026-1481. General Comments: Reflections calculated from precision measurement of a0. a0 uncorrected for refraction. Sample Source or Locality: This sample is NBS Standard Reference Material No. 640. Temperature of Data Collection: 298(1) K. Unit Cell Data Source: Powder Diffraction.			



No.	2 θ , °	d-value	Norm. I.	h k l	No.	2 θ , °	d-value	Norm. I.	h k l
1	28.44	3.136	100.00	1 1 1	7	94.95	1.045	6.00	5 1
2	47.30	1.920	55.00	2 2 0	8	106.71	0.960	3.00	4 4
3	56.12	1.637	30.00	3 1 1	9	114.09	0.918	7.00	5 3
4	69.13	1.358	6.00	4 0 0	10	127.55	0.859	8.00	6 2
5	76.38	1.246	11.00	3 3 1	11	136.90	0.828	3.00	5 3
6	88.03	1.109	12.00	4 2 2					

2 θ are calculated with wavelength=1.54059Å