

Table IV-3. Some criteria for petrologic types of chondrite subclasses (Dodd, 1981).

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Criterion	Petrologic type						
	1	2	3	4	5	6	7
Dispersion of olivine, pyroxene compositions		>5% mean deviation of Fe		≤5%	Homogeneous		
Polymorph of low-Ca pyroxene		Chiefly monoclinic		Partly monoclinic	Orthorhombic		
					CaO≤1 wt %	CaO>1%	
Secondary feldspar		Absent or minor		Micro-crystalline aggregates	Clear interstitial grains Coarsening from type 5 to type 7		
Chondrule glass		Clear and isotropic		Devitrified	Absent		
Metal phase (Ni wt %)		Taenite (<20) minor or absent	Kamacite and taenite (>20) in exsolution relationship				
Mean Ni in troilite		>0.5 wt %	<0.5 wt %				
Matrix	All fine-grained, opaque	Chiefly fine, opaque	Clastic and minor opaque	Recrystallized Coarsening from type 4 to type 7			
Chondrule-matrix integration	No chondrules	Chondrules very sharply defined		Well defined	Readily delineated	Poorly defined	Relicts only
Carbon wt %	3-5	0.8-2.6	0.2-1	<0.4			
Water wt %	18-22	2-16	0.3-3	<1.5			