

The 14 Space (Bravais) Lattices and Their Pearson Symbols

Crystal system	Space lattice	Bravais Lattice	Pearson symbol
Triclinic (anorthic)	Primitive	aP	aP^*
Monoclinic	Primitive	mP	mP^*
	Base-centered(a)	mS (formerly mA , mB , mC)	mS^*
	Orthorhombic	Primitive	oP
	Base-centered(a)	oS (formerly oA , oB , oC)	oS^*
	Face-centered	oF	oF^*
	Body-centered	oI	oI^*
	Tetragonal	Primitive	tP
	Body-centered	tI	tI^*
Hexagonal	Primitive	hP	hP^*
Rhombohedral	Primitive	hR	hR^*
Cubic	Primitive	cP	cP^*
	Face-centered	cF	cF^*
	Body-centered	cI	cI^*

* = sum of multiplicities of all atom sites in the structure

(a) The face that has a lattice point at its center may be chosen as the c face (the xy plane), denoted by the symbol C , or as the a or b face, denoted by A or B , because the choice of axes is arbitrary and does not alter the actual translations of the lattice. The letter S has been recommended by a subcommittee of the International Union of Crystallography, since this notation is independent of the actual space group setting. C and S are used interchangeably here, depending on the convention followed by the author and/or editor.