

CLAY

The material given by David is very rich and helpful.

Clay is a family of minerals whose grain size is comprised between 1 and 4 microns.

	Grain size range	Category	Group	Family
5	2 mm - <64 mm	Gravel		
4	62.5 μm - <2 mm	Sand		
3	4 μm - <62.5 μm	Silt	Mud	
2	1 μm - <4 μm	Clay (true clay)		
1	< 1 μm	Colloid		

μm = micron

mm = millimeter

In some applications, this word clay has a wide meaning and characterizes a range of grain size adapted to the needs of the sector. Then, it generally means fines or mud.

In sand moulding, they use the notion of "AFS Clay". AFS stands for American Foundry men's Society. "AFS clay content" is defined as that portion of a foundry sand which, when suspended in water, fails to settle at a rate of one inch per minute. The AFS clay material is determined by the AFS standard clay test. The AFS clay material consists of clay and material of less than 20 microns in diameter. In other words, it is a mixture of colloid, true clay and fine silt.

In your case, the cut off is 75 microns. So your clay material consists of colloid, true clay, silt and very fine sand of less than 75 microns in diameter. This can have some meaning as your main product is gravel.

As said by David, the 75 microns cut off for clay might be applicable to the gravel case, but certainly is not a general method.

As in "AFS Clay", having a qualifying adjective for this "gravel" clay will improve communication.