

### Solutions Inc.

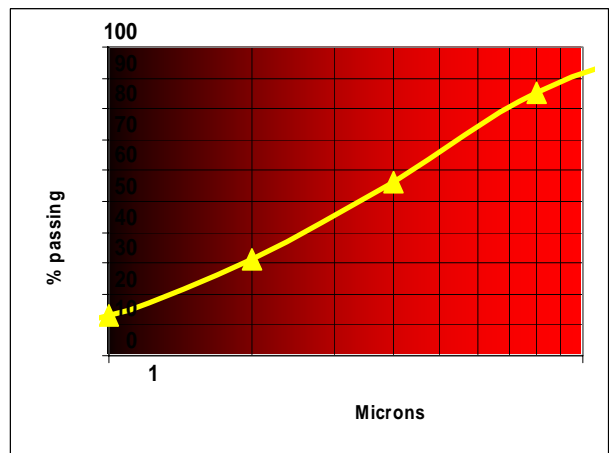
*Microblend Solutions Inc. is a Canadian manufacturer of premium ultrafine products: Microblend AF, Microblend A cements and Microblend F flyash.*

Microblend AF is a versatile, ultrafine cement that can be used to meet the most demanding criteria of oil and gas, mining, and construction industries. Each industry has very specific needs and Microblend AF is designed to meet these specific requirements.

Chemical Composition		Physical Properties	
	Microblend AF		Microblend AF
Silica	33.22%	Specific Gravity	2.7
Alumina	8.86%	Absolute Volume M3	0.370
Iron Oxide	3.66%	Bulk density M3/t	1
Calcium Oxide	45.19%		
Magnesium Oxide	4.37%		

Microblend can be utilized with a large variety of plasticizers and superplasticizers for a recommended product and concentration please contact you Microblend representative.

Particle size matters, whether you are injecting into sand or silt, shutting off water flow in a carbonate formation, or reducing permeability in a concrete structure. The ultrafine particles in Microblend AF can simplify your optimum product choice: it is versatile enough to meet a variety of needs.



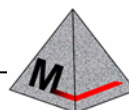
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# Microblend

Technical data

Solutions Inc.

Microblend AF

Oilfield

Mining

Construction


Oilfield			
Typical Uses	Microblend AF	Fine	Class C
Microannulus	X		
Cement Plugs	X	X	X
Ground Water	X	X	
Conformance	X		
Casing Leaks	X		
Gas Migration	X		X
Shoe Squeezes	X	X	X
Abandonment Wells	X		X

Mining			
Typical Uses	Microblend AF	Fine	Class C
Shotcrete	X	X	
Water Shutoff	X		
Ground Water	X		
Mine Stabilization	X	X	

Construction			
Properties	Microblend AF	Fine	Class C
Blain Fineness	1000 m <sup>2</sup> /kg	700 m <sup>2</sup> /kg	600 m <sup>2</sup> /kg
< 40 Micron	100%	100%	99%
< 30 Micron	100%	100%	94%
< 20 Micron	100%	99%	78%
< 10 Micron	92%	78%	55%
< 5 Micron	65%	45%	33%
< 2 Micron	31%	17%	9%
Average um	4	6	9
Packaged	20 kg bags	25 kg bags	Bulk

WHMIS (Pictograms)	WHMIS (Classification)
	WHMIS Class D2A: Material causing other toxic effects WHMIS Class E: Corrosive material

