



PRODUCT INFORMATION

BROCHURE

1.1D

AVALANCHE CONTROL EMULSION



Snow Pro and **Snow Pro W** are detonator sensitive emulsion explosives used in specialized avalanche control applications to mitigate public safety risks associated with avalanches.

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Austin Powder's Snow Pro and Snow Pro W are trusted internationally to be used with permanent avalanche control towers where an approved avalanche control plan has been designed by qualified professionals.

APPLICATION RECOMMENDATIONS

- Prime cartridges according to manufacturer's recommendations.
- Consult CIL Explosives or Austin Powder before using avalanche control explosives.
- Only individuals trained in the use of avalanche control explosives should be involved with their use. Follow all country, state, and provincial laws regarding the use of explosives.

STANDARD TECHNICAL DESCRIPTION

Detonator sensitive emulsion to **-40F (-40C)**

ADVANTAGES

- High explosive energy provides precisely targeted energy where it is needed.
- Variable packaging material for a variety of use cases.
- Rugged and durable packaging to withstand harsh environments.
- Excellent water resistance to inhibit leaching and environmental impact.

PRIMING

Follow CIL Explosives and Austin Powder guidance for priming packaged emulsion explosives. Consult the manufacturer for best practices and application recommendations.

PROPERTIES

Properties	Value	
Density [g/cc]	1.16	
Oxygen Balance [%] ⁽¹⁾	-0.6	
Gas Volume [l/kg]	982	
Water Resistance	Excellent	
Relative Weight Strength [ANFO=100] ⁽¹⁾	94	
Relative Bulk Strength [ANFO=0.82 g/cm ³] ^{(1) ‡}	133	
Detonation Pressure	79	
Heat of Explosion	2,022	
Fume Class	1	
Velocity of detonation (confined) ⁽²⁾	[ft/s]	18,166
	[m/s]	5,537

Notes:

(1) Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ.

(2) The velocity of detonation will depend on application, diameter and confinement.

‡ Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values. Relative properties derived from an ANFO density = 0.82 g/cc @ 100 bar Relative energy values based on ANFO = 100

STANDARD PACKAGING

Cartridge Type	in	mm	Cartridge Weight	Case Count (50lb / 22.5kg per case)
Austin Tube (cardboard)	2 1/2 x 16	64 x 406	1 kg	22
Plastic Film	4 x 16	102 x 8.33	3.78 kg	6

SHELF LIFE, STORAGE & DISPOSAL

- Shelf life is two years from date of manufacture, under good storage conditions.
- Store in accordance with all applicable local, state, provincial and federal laws.
- Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Austin Powder Technical Representative for information on safe practices.
- Disposal must be in accordance with local and national legal requirements.

TRANSPORT – UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type E
 Class & Division: 1.1D
 ID Number: UN 0241

US DOT REFERENCE NUMBER

Disclaimer of Warranties and Limitations of Liabilities: Products described in this document are sold by Austin Powder without warranty; express, implied or statutory or as to MERCHANTABILITY, except as expressly stated in Austin Powder's straight bill of lading. Under no circumstances shall seller be liable for loss of anticipated profits, consequential damages or incidental damages. For more information and service locations please contact Austin Powder's headquarters:



AUSTIN POWDER

Our Mission: To improve the world we live in through the safe and responsible use of explosives.

Austin Powder, 25800 Science Park Drive, Cleveland, OH 44112 USA
austinpowder.com | Phone 1-800-321-0752 | Fax 1-216-464-4418