



BosQRet®

Flame retardants for forest and vegetation fire fighting

BosQRet® comprises our product line of fully biodegradable fire water additives designed to slow down or even stop the spread of fire fronts and -flanks of forest- and vegetation fires.

These so-called retardants open up new tactical options in firefighting. As a wet or dry barrier, they stop the advancing [growth] of the fire-front or limit the lateral spread on the flanks. Depending on the terrain and vegetation, flame lengths can be reduced significantly, enabling an active attack on the front. By adjusting the active ingre-

dient concentration and the shape of the barrier, fire progression can also be stopped completely, so that only a follow-up check of the fire area is necessary.

By dispensing with persistent ingredients and formulating without polyacrylates, BosQRet® retardants are environmentally friendly and can be used in nature. The biodegradability is confirmed by comprehensive environmental reports by recognised and independent environmental institutes.





BosQRet®

BosQRet® is a liquid, pre-coloured flame retardant concentrate for use by fire departments and/or supporting units fighting forest- and vegetation fires. As a flame retardant BosQRet® can also be used preventively to secure fires for landscape maintenance or counter-fires. Its special formulation allows BosQRet® to be used universally by ground-based forces. Due to its low content of surface-active components, it can be used as wetting agent for active firefighting at the edge of the fire or for follow-up operations in the affected area or inside objects.

BosQRet® develops its actual performance as a flame retardant from an admixture of 5%. At this concentration, it can be applied as a wet barrier in front of the approaching fire. Depending on the width of the BosQRet® barrier and the length of the flames, this barrier will not be overrun. Reaching the barrier the fuel burns down, and the fire self-extinguishes. BosQRet® can also be used as a long-term retardant acting as a dry barrier. If applied with a significant advance and on the flame length and speed, as well as the strength of the barrier, even the dried-up barrier of BosQRet® is capable of stopping the fire front. This allows for tactical planning of firefighting attacks on the fire front. Particularly in areas with munitions contamination,

resource-efficient firefighting can be conducted without endangering emergency personnel. Barricade positions with a permanent water supply (circular sprinklers) are therefore no longer necessary. Critical infrastructure and settlements can be protected with minimal personnel deployment, even when the fire front changes direction, by creating effective barriers that take advantage of the terrain's shape. The follow-up monitoring and defence of such passive barriers can be achieved with very little manpower and material. It can be applied from the ground using standard firefighting equipment.

BosQRet® is also suitable for application with fog fighters and turbine technology. The material's compatibility for use with external load containers (Bambi Buckets) has been confirmed. It is therefore possible to restrain the course of fire flanks on steep slopes by targeted helicopter drops during the initial deployment phase. BosQRet® can also be deployed from firefighting aircraft such as Air Tractors.

The addition of high-contrast dye makes the treated area identifiable from both the ground and the air. The colour effect enables uninterrupted application to create an effective and coherent barrier. BosQRet® can be supplied in various colour intensities (see table).

Product	Proportioning rate wetting agent	Proportioning rate barrier	Colouring	Maximum application per m² forest floor	Quantity required for barring	Available packaging
BosQRet® #1801	0.3 % - 3 %	from 5 % to 20 %	intense red	500 L solution at 20 % 1000 L solution at 10 % 2000 L solution at 5 %	from 1.5 – 3 L/m² total quantity for ground application	1000 litres, smaller container sizes available on request
BosQRet® #1802			without colour			20 litres 25 litres 60 litres 200 litres 600 litres 1000 litres
BosQRet® #1803			red			1000 litres, smaller container sizes available on request

This product is available upon consultation via our emergency hotline. Please contact us for preliminary planning. Optionally, we offer training courses for the use of flame retardant additives for leaders, users, and incident commanders, and we are available to provide expert advice in the event of an emergency.

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