



TECHNICAL DATA

Ultra-Blak™ OX

Liquid Oxidizing Agent for Black Oxide Finish on Steel

Ultra-Blak OX is a unique blend of oxidizing agents, rectifiers, wetters, penetrants, catalysts and activators. It does not contain any Sodium Hydroxide. The black oxider purchases 50% by weight liquid Sodium Hydroxide through a local commodity chemical supplier. This presents a significant cost savings opportunity to the hot black oxider. These savings result in purchasing the Sodium Hydroxide on a "direct" basis, eliminating the middle man (black oxide manufacturer). The black oxider who purchases overseas or consumes large quantities of black oxide salt and/or liquids will save money.

Ultra-Blak OX and Sodium Hydroxide blended at the proper ratios will result in **Ultra-Blak 400** - the blackest black oxide available. For further questions about **Ultra-Blak 400**, please review the **Ultra-Blak 400** technical data brochure.

COST ANALYSIS

Contact your local commodity supplier for (\$/lb.) pricing of Sodium Hydroxide (NaOH) in drums and/or totes. Plug this price into the following equation:

$$\frac{\text{Price 50\% NaOH}}{\$/\text{lb.}} \times \text{times (X) 12.78 lb/gallon} = \text{equals (=) } \frac{\text{Price 50\% NaOH}}{\$/\text{gallon}}$$

Plug the \$/gallon price of the Sodium Hydroxide into the first part of the following equation, then plug the price for **Ultra-Blak OX** \$/gallon.

$$\left(\frac{\text{Price 50\% NaOH}}{\$/\text{gallon}} \times 0.72 \right) + \left(\frac{\text{Price Ultra-Blak OX}}{\$/\text{gallon}} \times 0.28 \right) = \frac{\text{Total Price}}{\$/\text{gallon}}$$

ULTRA BLAK 400 BATH MAKE UP

100 gallon (378.5 Liters) Ultra Blak 400 Bath

72 gallons (272.52 liters) or 920.26 # (418.3 kg) of 50% by weight sodium hydroxide liquid
28 gallons (105.98 liters) or 303.50# (138 kg) of Ultra Blak OX

Utilize safety equipment for eyes, hands, feet, and body. Add the 50% liquid sodium hydroxide to the unheated black oxide tank. Slowly add the Ultra Blak OX to the black oxide tank. Mix the solution gently. Turn on heat source and run at 285°F (140.6°C). See Ultra Blak 400 or 400-L technical bulletin for more information.

EQUIPMENT

No mixing tanks are required. Only two regulated automatic feed pumps are required.

IMPORTANT NOTICE! For Industrial Use Only

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: seller's and manufacturers only obligation shall be to replace such quantity of the product as proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. **Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential, arising out of the use or the inability to use the product.**

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