



**Nandira® Chemicals**



# EASY BLACK

## COLD BLACK CONCENTRATE

Easy Black cold concentrate is an immersion blackening solution that results in a smooth, no-smut satin black finish on tools & components

Eco Friendly

No heating required

Non Toxic & Non Fuming

Ready to Use

Superior Black Satin Finish

### Features:

- Easy user friendly process.
- **No heating** hence no fumes, no Hazardous chemicals , non Toxic.

### Advantages :

- In-house Work.
- No need to do OUT SOURCING.
- Cost Saving as No loading , unloading , Transportation.
- Material loss as well as damage can be saved.

### Benefits of Black Oxide coating:

- Decorative black colour -- Required surface appearance ( shiny, glossy or matte ) may be obtained. The colour is stable at increased temperatures. Thickness of Black Oxide does not exceed 0.75 microns half of which is added to the part dimension and the second half penetrate to the part depth.
- Strong adhesion between the coating and the substrate -- Black oxide coating does not peel from the surface.
- Good lubrication characteristics – Black oxide improves anti-galling properties, in addition to this after finish application of oil decreases coefficient of friction of the black oxide coated parts.
- Low light reflection. Reduces light glare of moving parts, hand tools coated with Black Oxide causes less eye fatigue.
- No Hydrogen embrittlement – Since Hydrogen is not evolved in the chemical process of Black Oxide coating, no Hydrogen diffusion into the metal occurs.

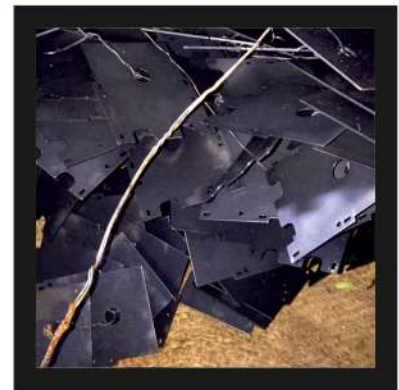
- No Hydrogen embrittlement, Since Hydrogen is not evolved in the chemical process of Black Oxide coating , no Hydrogen diffusion into the metal occurs.
- Slight improvement in corrosion protection. Black oxide coating provides some corrosion protection for internally used parts ( not in corrosive environment.)
- This is much more CHEAPER PROCESS THAN HOT ONE.

### How to use ?

- **Pre-cleaning of jobs - Ensure that the job is free of Rust by cleaning it with Easy Black pre-cleaning solution (via dipping or mopping).**
- **Dip the pre-cleaned job in Eay Black Cold Blackening solution.**
- **Wait for 15 to 20 minutes, take the job out and wash with water thoroughly.**
- **Properly dry the job and apply 'Anti-rust' oil for further protection.**

For MSDS and technical details, visit our website [www.nandira.com](http://www.nandira.com) or contact our technical support team at +91-9820412232 or mail us at [solutions@nandira.com](mailto:solutions@nandira.com)

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