

## OXYSCALE T4

### Low Borax Containing Deoxidant. For Continuous Mill Tube Hot Rolling Process.

#### 1. Description:

**OXYSCALE T4** is a powder product developed for production of seamless tubes from low carbon steel. It appears as white to grey colored controlled particle size powder. Contains borates, phosphates and fats mixture which melts at hot rolling process.

The melt dissolves scale and keeps it in liquid phase.

**OXYSCALE T4** blocks further scale formation.

**OXYSCALE T4** is applied by blowing on continuous tube rolling mill between piercing and rolling.

**OXYSCALE T4** improves the process due to:

1. Improving of lubrication at hot rolling.
2. Increasing of mandrel life time.
3. Ensuring corrosion protection during the process.
4. Increasing the rolling speed.
5. Decreasing the electric current loads during the process

#### 2. Physical Chemical Structure and Application:

Physical Chemical Structure: Appearance:

	powder Color:
	white to grey
Humidity (110 °C):	< 1%
Particle size:	100% < 90 µm

Chemicals: OXYSCALE T4

Application and Control:

Concentration:	100 %
Dosage:	Depending on the length and diameter. Norm. in range 50-80 g/m <sup>2</sup> .

#### 3. Process Sequence:

**OXYSCALE T4** process contents on the following stages:

- Hole piercing in hot tube billet.
- Major scale volume blasting by the inert gas.
- Blowing off by the inert gas the dosed quantity of **OXYSCALE T4** to the shell.
- 2-3 s. reaction time
- Rolling

#### 4. Equipment:

The dosing equipment has to be constructed from stainless steel.

## **5. Storage:**

**OXYSCALE T4** is sensitive to air humidity. Product should be stored in original package in dry and well ventilated area. **OXYSCALE T4** shelf life at the above condition makes 6 months since the production date. Based on product condition after storage analyses the shelf life prolongation is possible.

## **6. Waste Treatment and Safety Information:**

The existing local utilization requirements has to be observed. The detailed information on product composition in the form as it is delivered refer the Product Technical Conditions. **OXYSCALE T4** may cause eye and mucous membrane irritation. Use safety glasses to avoid eye contact. Heated material may cause skin and mucous membrane burn. In case of contact follow the recommendations listed in the Product Technical Conditions.

information is based on our current level of knowledge. It is given in good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.